PHILIPS

Lighting

A smooth design solution for a seamless look

PAR30/PAR20 LED

Philips PAR30 and PAR20 LED Single Optic Lamps provide superior lighting aesthetics and optimal thermal efficiency in a sleek, lightweight design.

Benefits

- Will not fade colors, avoids inventory spoilage
- Lowers maintenance costs by reducing re-lamp frequency
- 5-year limited warranty**
- ** For details see: http://www.usa.lighting.philips.com/connect/tools_literature/warranties.wpd.

Features

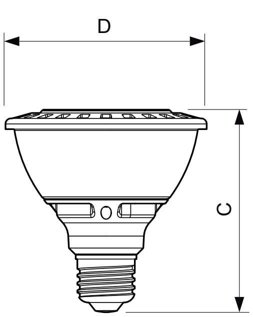
- 25,000-hour rated average life*
- Virtually UV/IR free in the beam
- Contains no mercury

Application

- Ideal for general and accent lighting in retail,hospitality and office spaces.

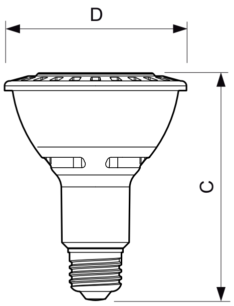
Versions

Dimensional drawing



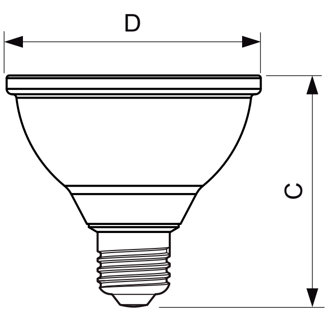
Product	D	C
120V PAR30S 12.5W 15D 3000K 780 CW SO	92 mm	93 mm
120V PAR30S 12.5W 15D 3000K 780 CW SOB	92 mm	93 mm
120V PAR30S 12W 15D 2700K 900 D AF SO	92 mm	92.7 mm
120V PAR30S 12W 25D 2700K 900 D AF SO	92 mm	92.7 mm
120V PAR30S 12W 15D 3000K 900 D AF SO	92 mm	92.7 mm
120V PAR30S 12W 25D 4000K 900 D AF SO	92 mm	92.7 mm
120V PAR30S 12W 35D 2700K 900 D AF SO	92 mm	92.7 mm
120V PAR30S 12W 35D 3000K 900 D AF SO	92 mm	92.7 mm
120V PAR30S 12W 25D 3000K 900 D AF SO	92 mm	92.7 mm
120V PAR30S 12W 35D 4000K 900 D AF SO	92 mm	92.7 mm
12 PAR30S/F25 2700 DIM Black	92 mm	92.7 mm
12 PAR30S/F25 3000 DIM Black	92 mm	92.7 mm

Dimensional drawing

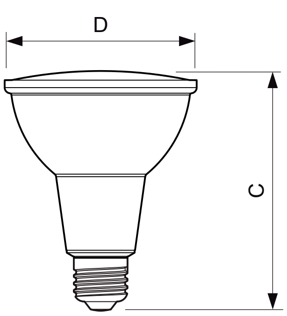


Product	D	C
120V PAR30L 12.7W 35D 3000K 900 D SO	92 mm	116 mm
120V PAR30L 12.7W 35D 2700K 900 D SO	92 mm	116 mm
120V PAR30L 12.7W 25D 2700K 900 D SO	92 mm	116 mm
120V PAR30L 12.7W 25D 3000K 900 D SO	92 mm	116 mm
120V PAR30L 12.7W 25D 4000K 900 D SO	92 mm	116 mm
120V PAR30L 12.7W 35D 4000K 900 D SO	92 mm	116 mm

Product	D	C
120V PAR20 SO 6W 35D 2700K DIM	63.2 mm	82.6 mm
120V PAR20 SO 6W 25D 4000K DIM	63.2 mm	82.6 mm
120V PAR20 SO 6W 15D 2700K DIM	63.2 mm	82.6 mm
120V PAR20 SO 6W 25D 3000K DIM	63.2 mm	82.6 mm
120V PAR20 SO 6W 25D 2700K DIM	63.2 mm	82.6 mm
120V PAR20 SO 6W 35D 4000K DIM	63.2 mm	82.6 mm
120V PAR20 SO 6W 25D 2700K DIM Black	63.2 mm	82.6 mm
120V PAR20 SO 6W 25D 3000K DIM Black	63.2 mm	82.6 mm
120V PAR20 SO 6W 35D 3000K DIM	63.2 mm	82.6 mm



Product	D	C
12PAR30S/AMB/F40/830/DIM ULW	125 mm	95 mm
12PAR30S/AMB/F25/840/DIM ULW	125 mm	95 mm
12PAR30S/AMB/F40/840/DIM ULW	125 mm	95 mm
12PAR30S/AMB/F25/827/DIM ULW	125 mm	95 mm
12PAR30S/AMB/F25/830/DIM ULW	125 mm	95 mm
12PAR30S/AMB/F40/827/DIM ULW	125 mm	95 mm



Product	D	C
12PAR30L/AMB/F40/827/DIM ULW	95 mm	115 mm
12PAR30L/AMB/F25/840/DIM ULW	95 mm	115 mm
12PAR30L/AMB/F25/830/DIM ULW	95 mm	115 mm
12PAR30L/AMB/F40/840/DIM ULW	95 mm	115 mm
12PAR30L/AMB/F40/830/DIM ULW	95 mm	115 mm
12PAR30L/AMB/F25/827/DIM ULW	95 mm	115 mm

Operating and Electrical	
Voltage (Nom)	120 V
Starting Time (Nom)	0.5 s

General Information	
Cap-Base	E26

Light Technical	
Color Rendering Index (Nom)	80
Llmf At End Of Nominal Lifetime (Nom)	70 %

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
434928	13 kWh	A
434936	13 kWh	A
435263	-	Not applicable
435271	-	Not applicable
435297	-	Not applicable
435305	-	Not applicable
435313	-	Not applicable
435321	-	Not applicable
435339	-	Not applicable
435347	-	Not applicable
454660	-	Not applicable
454678	-	Not applicable
454686	-	Not applicable
454694	-	Not applicable
454702	-	Not applicable
454710	-	Not applicable
459644	-	Not applicable
459651	-	Not applicable
463729	-	Not applicable
463646	-	Not applicable

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
463653	-	Not applicable
463661	-	Not applicable
463679	-	Not applicable
463687	-	Not applicable
463695	-	Not applicable
463703	-	Not applicable
463711	-	Not applicable
467811	-	-
467829	-	-
467837	-	-
467845	-	-
467852	-	-
467860	-	-
467878	-	-
467886	-	-
467894	-	-
467902	-	-
467910	-	-
467928	-	-

Controls and Dimming

order code	Dimmable
434928	No
434936	No
435263	Yes
435271	Yes
435297	Yes
435305	Yes
435313	Yes
435321	Yes
435339	Yes
435347	Yes
454660	Yes
454678	Yes
454686	Yes
454694	Yes

order code	Dimmable
454702	Yes
454710	Yes
459644	Yes
459651	Yes
463729	Yes
463646	Yes
463653	Yes
463661	Yes
463679	Yes
463687	Yes
463695	Yes
463703	Yes
463711	Yes
467811	Yes

PAR30/PAR20 LED

order code	Dimmable
467829	Yes
467837	Yes
467845	Yes
467852	Yes
467860	Yes
467878	Yes

order code	Dimmable
467886	Yes
467894	Yes
467902	Yes
467910	Yes
467928	Yes

Operating and Electrical

order code	Input Frequency	Wattage Equivalent	Power (Rated) (Nom)
434928	60 Hz	60 W	12.5 W
434936	60 Hz	60 W	12.5 W
435263	60 Hz	75 W	12 W
435271	60 Hz	75 W	12 W
435297	60 Hz	75 W	12 W
435305	60 Hz	75 W	12 W
435313	60 Hz	75 W	12 W
435321	60 Hz	75 W	12 W
435339	60 Hz	75 W	12 W
435347	60 Hz	75 W	12 W
454660	60 Hz	75 W	12.7 W
454678	60 Hz	75 W	12.7 W
454686	60 Hz	75 W	12.7 W
454694	60 Hz	75 W	12.7 W
454702	60 Hz	75 W	12.7 W
454710	60 Hz	75 W	12.7 W
459644	60 Hz	75 W	12 W
459651	60 Hz	75 W	12 W
463729	60 Hz	50 W	6 W
463646	60 Hz	50 W	6 W

order code	Input Frequency	Wattage Equivalent	Power (Rated) (Nom)
463653	60 Hz	50 W	6 W
463661	60 Hz	50 W	6 W
463679	60 Hz	50 W	6 W
463687	60 Hz	50 W	6 W
463695	60 Hz	50 W	6 W
463703	60 Hz	50 W	6 W
463711	60 Hz	50 W	6 W
467811	50 to 60 Hz	75 W	12 W
467829	50 to 60 Hz	75 W	12 W
467837	50 to 60 Hz	75 W	12 W
467845	50 to 60 Hz	75 W	12 W
467852	50 to 60 Hz	75 W	12 W
467860	50 to 60 Hz	75 W	12 W
467878	50 to 60 Hz	75 W	12 W
467886	50 to 60 Hz	75 W	12 W
467894	50 to 60 Hz	75 W	12 W
467902	50 to 60 Hz	75 W	12 W
467910	50 to 60 Hz	75 W	12 W
467928	50 to 60 Hz	75 W	12 W

General Information

order code	Bulb Shape	Nominal Lifetime (Nom)	Rated Lifetime (Hours)	Switching Cycle
434928	PAR30S	50000 h	50000 h	20000X
434936	PAR30S	50000 h	50000 h	20000X
435263	PAR30S	25000 h	25000 h	50000X
435271	PAR30S	25000 h	25000 h	50000X
435297	PAR30S	25000 h	25000 h	50000X
435305	PAR30S	25000 h	25000 h	50000X
435313	PAR30S	25000 h	25000 h	50000X
435321	PAR30S	25000 h	25000 h	50000X
435339	PAR30S	25000 h	25000 h	50000X
435347	PAR30S	25000 h	25000 h	50000X
454660	PAR30L	25000 h	25000 h	50000X
454678	PAR30L	25000 h	25000 h	50000X
454686	PAR30L	25000 h	25000 h	50000X
454694	PAR30L	25000 h	25000 h	50000X
454702	PAR30L	25000 h	25000 h	50000X
454710	PAR30L	25000 h	25000 h	50000X
459644	PAR30S	25000 h	25000 h	50000X

order code	Bulb Shape	Nominal Lifetime (Nom)	Rated Lifetime (Hours)	Switching Cycle
459651	PAR30S	25000 h	25000 h	50000X
463729	PAR20	25000 h	25000 h	50000X
463646	PAR20	25000 h	25000 h	50000X
463653	PAR20	25000 h	25000 h	50000X
463661	PAR20	25000 h	25000 h	50000X
463679	PAR20	25000 h	25000 h	50000X
463687	PAR20	25000 h	25000 h	50000X
463695	PAR20	25000 h	25000 h	50000X
463703	PAR20	25000 h	25000 h	50000X
463711	PAR20	25000 h	25000 h	50000X
467811	PAR30L	25000 h	25000 h	50000X
467829	PAR30L	25000 h	25000 h	50000X
467837	PAR30L	25000 h	25000 h	50000X
467845	PAR30L	25000 h	25000 h	50000X
467852	PAR30L	25000 h	25000 h	50000X
467860	PAR30L	25000 h	25000 h	50000X
467878	PAR30S	25000 h	25000 h	50000X

PAR30/PAR20 LED

order code	Bulb Shape	Nominal Lifetime (Nom)	Rated Lifetime (Hours)	Switching Cycle
467886	PAR30S	25000 h	25000 h	50000X
467894	PAR30S	25000 h	25000 h	50000X
467902	PAR30S	25000 h	25000 h	50000X
467910	PAR30S	25000 h	25000 h	50000X
467928	PAR30S	25000 h	25000 h	50000X

Light Technical

order code	Beam Angle (Nom)	Color Code	Correlated Color Temperature (Nom)	Light Distribution	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)	Luminous Intensity (Nom)	Rated Beam Angle
434928	15 °	830	3000 K	15D	780 lm	780 lm	6300 cd	15 °
434936	15 °	830	3000 K	15D	780 lm	780 lm	6300 cd	15 °
435263	15 °	827	2700 K	-	850 lm	850 lm	7400 cd	15 °
435271	15 °	830	3000 K	-	900 lm	900 lm	7900 cd	15 °
435297	25 °	827	2700 K	-	850 lm	850 lm	5000 cd	25 °
435305	25 °	830	3000 K	-	900 lm	900 lm	5300 cd	25 °
435313	25 °	841	4000 K	-	950 lm	950 lm	5500 cd	25 °
435321	35 °	827	2700 K	-	850 lm	850 lm	2400 cd	35 °
435339	35 °	830	3000 K	-	900 lm	900 lm	2500 cd	35 °
435347	35 °	841	4000 K	-	950 lm	950 lm	2700 cd	35 °
454660	25 °	827	2700 K	-	850 lm	850 lm	4700 cd	25 °
454678	25 °	830	3000 K	-	900 lm	900 lm	5000 cd	25 °
454686	25 °	841	4000 K	-	950 lm	950 lm	5200 cd	25 °
454694	35 °	827	2700 K	-	850 lm	850 lm	2300 cd	35 °
454702	35 °	830	3000 K	-	900 lm	900 lm	2400 cd	35 °
454710	35 °	841	4000 K	-	950 lm	950 lm	2600 cd	35 °
459644	25 °	827	2700 K	-	850 lm	850 lm	5000 cd	25 °
459651	25 °	830	3000 K	-	900 lm	900 lm	5300 cd	25 °
463729	15 °	827	2700 K	-	480 lm	480 lm	2800 cd	15 °
463646	25 °	827	2700 K	-	480 lm	480 lm	1800 cd	25 °
463653	25 °	830	3000 K	-	500 lm	500 lm	1850 cd	25 °
463661	25 °	841	4000 K	-	520 lm	520 lm	1900 cd	25 °
463679	35 °	827	2700 K	-	480 lm	480 lm	1000 cd	35 °
463687	35 °	830	3000 K	-	500 lm	500 lm	1050 cd	35 °
463695	35 °	841	4000 K	-	520 lm	520 lm	1080 cd	35 °
463703	25 °	827	2700 K	-	480 lm	480 lm	1800 cd	25 °
463711	25 °	830	3000 K	-	500 lm	500 lm	1850 cd	25 °
467811	25 °	827	2700 K	-	850 lm	850 lm	3300 cd	25 °
467829	25 °	830	3000 K	-	850 lm	850 lm	3300 cd	25 °
467837	25 °	841	4000 K	-	850 lm	850 lm	3300 cd	25 °
467845	40 °	827	2700 K	-	850 lm	850 lm	1500 cd	40 °
467852	40 °	830	3000 K	-	850 lm	850 lm	1500 cd	40 °
467860	40 °	841	4000 K	-	850 lm	850 lm	1500 cd	40 °
467878	25 °	827	2700 K	-	850 lm	850 lm	3300 cd	25 °
467886	25 °	830	3000 K	-	850 lm	850 lm	3300 cd	25 °
467894	25 °	841	4000 K	-	850 lm	850 lm	3300 cd	25 °
467902	40 °	827	2700 K	-	850 lm	850 lm	1500 cd	40 °
467910	40 °	830	3000 K	-	850 lm	850 lm	1500 cd	40 °
467928	40 °	841	4000 K	-	850 lm	850 lm	1500 cd	40 °

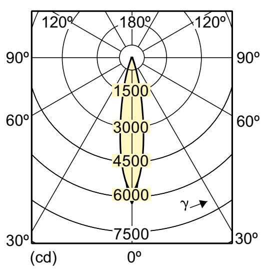
Temperature

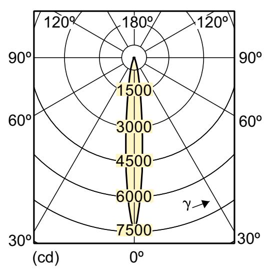
PAR30/PAR20 LED

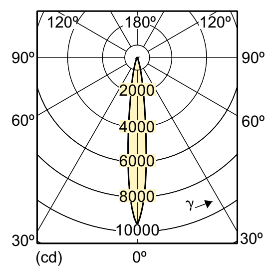
order code	T-Case Maximum (Nom)
434928	-
434936	-
435263	89 °C
435271	89 °C
435297	89 °C
435305	89 °C
435313	89 °C
435321	89 °C
435339	89 °C
435347	89 °C
454660	89 °C
454678	89 °C
454686	89 °C
454694	89 °C
454702	89 °C
454710	89 °C
459644	89 °C
459651	89 °C
463729	85 °C
463646	85 °C

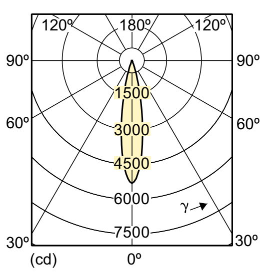
order code	T-Case Maximum (Nom)
463653	85 °C
463661	85 °C
463679	85 °C
463687	85 °C
463695	85 °C
463703	85 °C
463711	85 °C
467811	85 °C
467829	85 °C
467837	85 °C
467845	85 °C
467852	85 °C
467860	85 °C
467878	85 °C
467886	85 °C
467894	85 °C
467902	85 °C
467910	85 °C
467928	85 °C

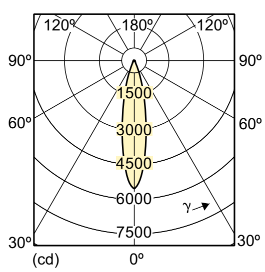
Light Distribution Diagrams

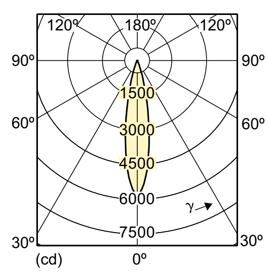






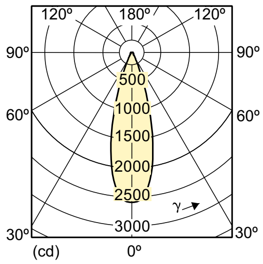


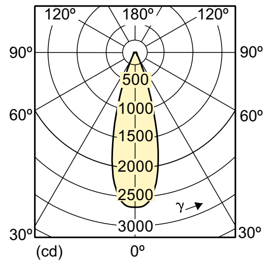


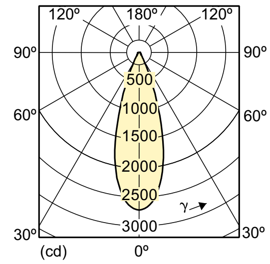


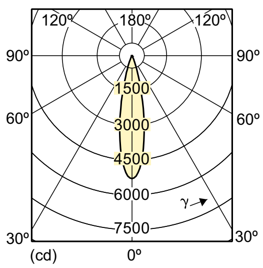
PAR30/PAR20 LED

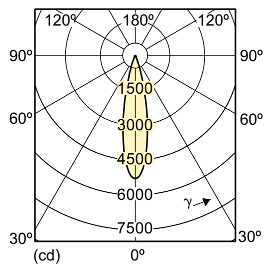
Light Distribution Diagrams

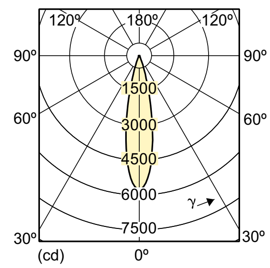


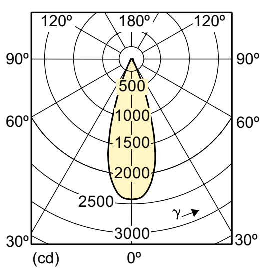


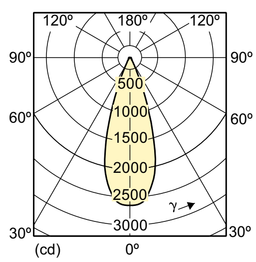


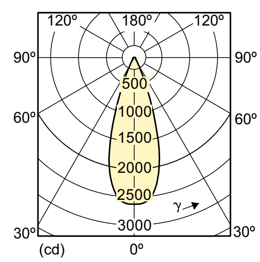


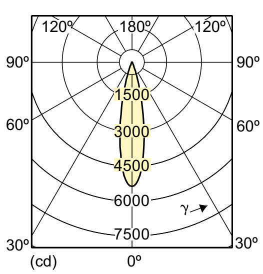


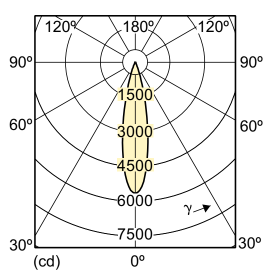


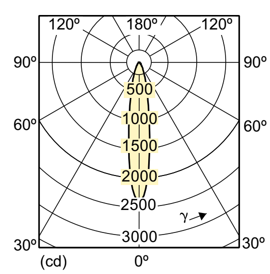




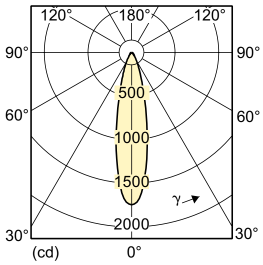


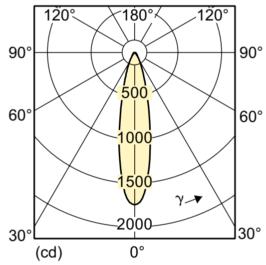


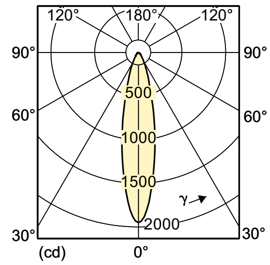


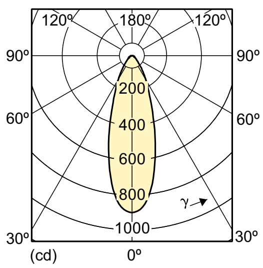


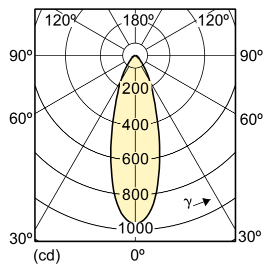
Light Distribution Diagrams

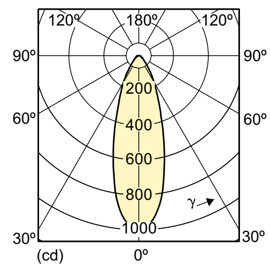


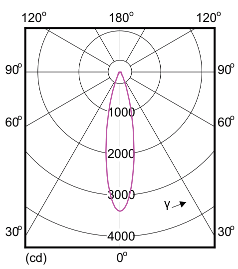


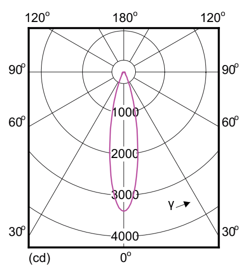


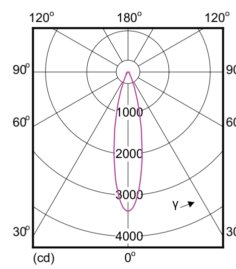


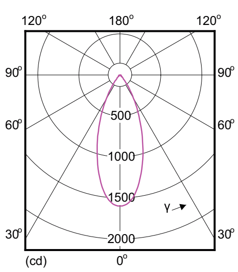


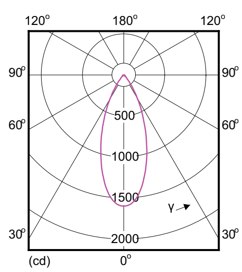


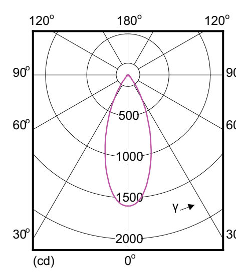






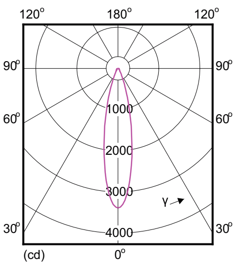


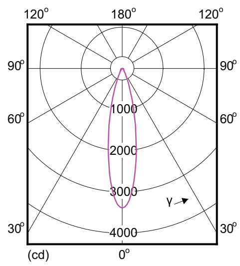


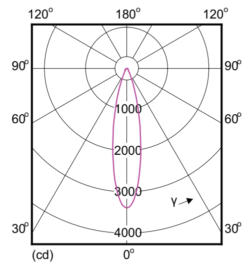


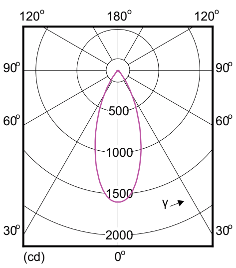
PAR30/PAR20 LED

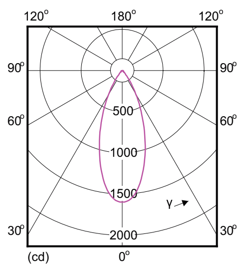
Light Distribution Diagrams

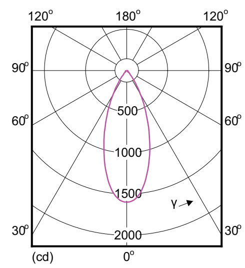




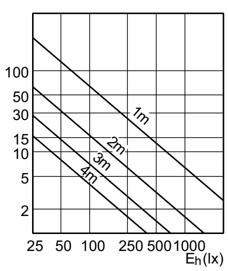


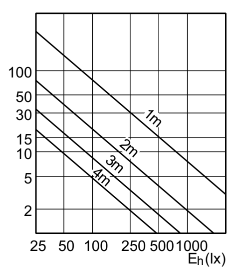


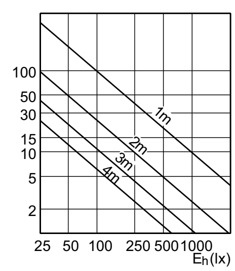


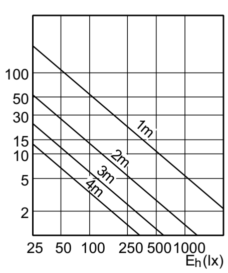


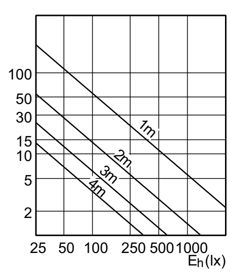
Accent Diagrams

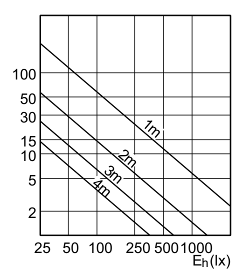






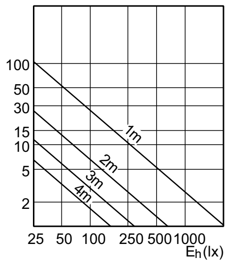


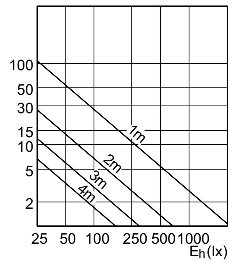


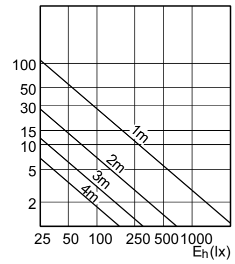


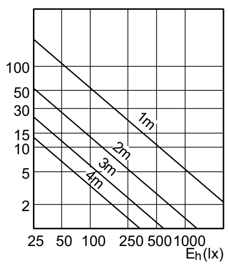
PAR30/PAR20 LED

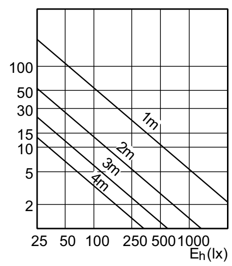
Accent Diagrams

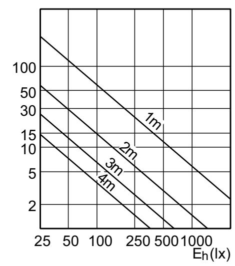


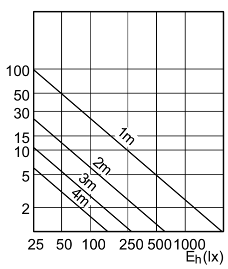


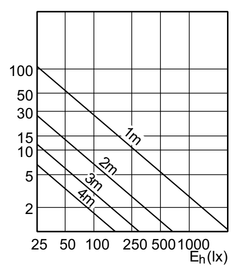


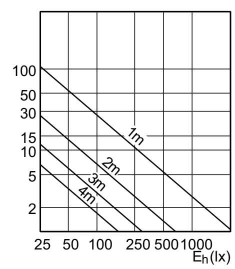


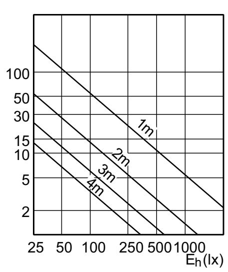


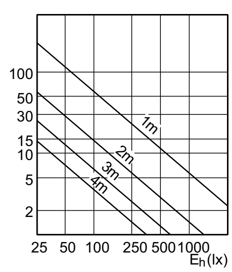


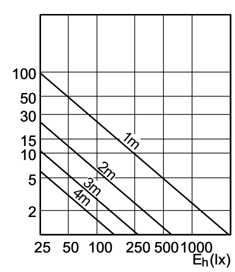




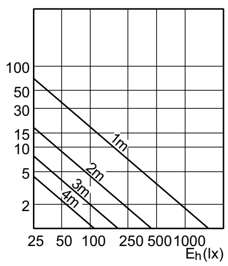


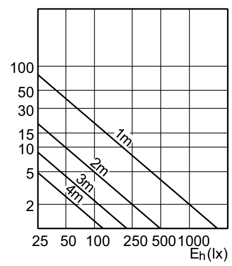


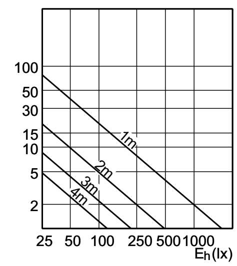


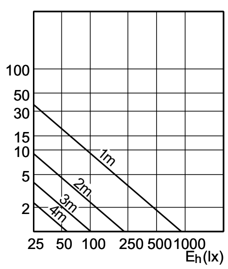


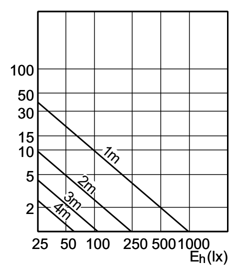
Accent Diagrams

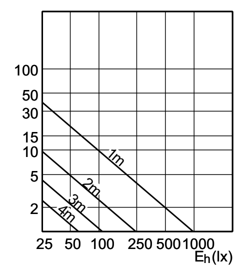


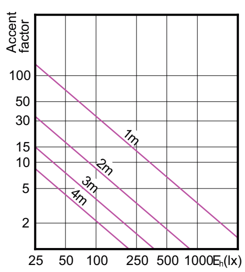


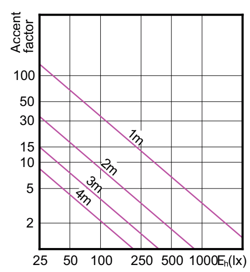


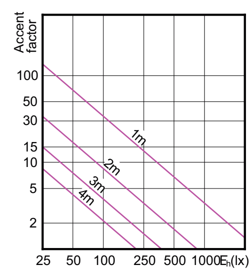


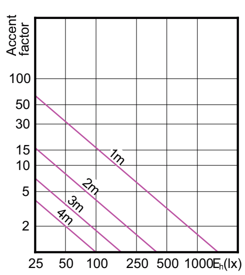


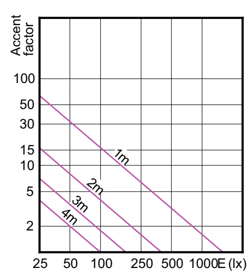


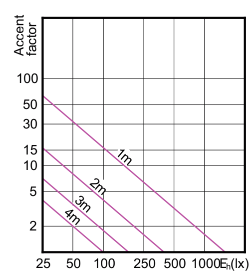






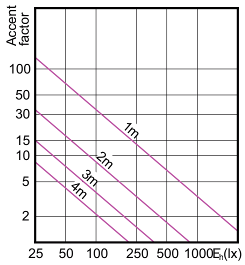


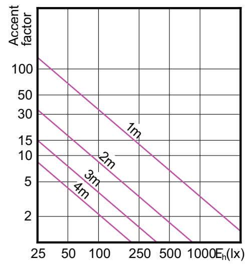


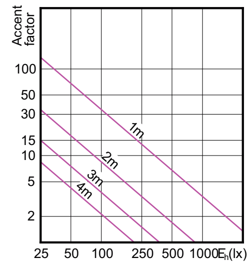


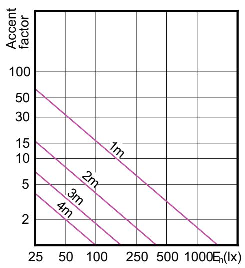
PAR30/PAR20 LED

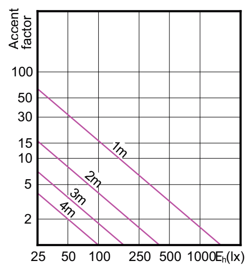
Accent Diagrams

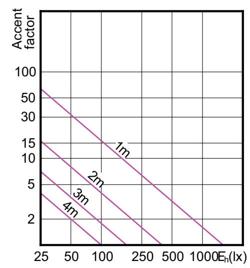




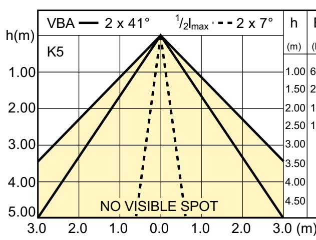




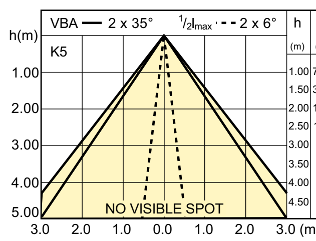




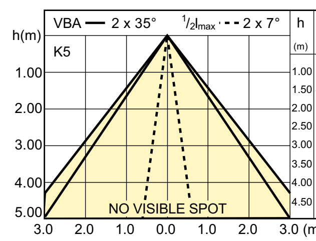
Beam Diagrams



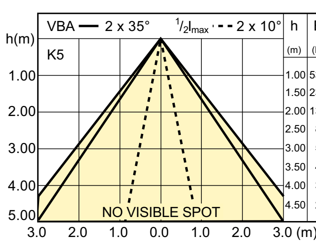
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_v$
1.00	6287	1.74	0.25	0.25
1.50	2794	2.61	0.37	0.37
2.00	1572	3.48	0.49	0.49
2.50	1006	4.35	0.61	0.61
3.00	699	5.22	0.74	0.74
3.50	513	6.09	0.86	0.86
4.00	393	6.95	0.98	0.98
4.50	310	7.82	1.11	1.11



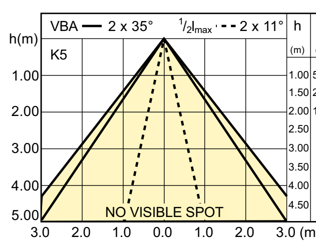
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_v$
1.00	7475	1.40	0.21	0.21
1.50	3322	2.10	0.32	0.32
2.00	1869	2.80	0.42	0.42
2.50	1196	3.50	0.53	0.53
3.00	831	4.20	0.63	0.63
3.50	610	4.90	0.74	0.74
4.00	467	5.60	0.84	0.84
4.50	369	6.30	0.95	0.95



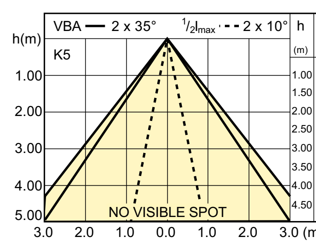
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_v$
1.00	9599	1.40	0.25	0.25
1.50	4266	2.10	0.37	0.37
2.00	2400	2.80	0.49	0.49
2.50	1536	3.50	0.61	0.61
3.00	1067	4.20	0.74	0.74
3.50	784	4.90	0.86	0.86
4.00	600	5.60	0.98	0.98
4.50	474	6.30	1.11	1.11



h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_v$
1.00	5307	1.40	0.35	0.35
1.50	2359	2.10	0.53	0.53
2.00	1327	2.80	0.71	0.71
2.50	849	3.50	0.88	0.88
3.00	590	4.20	1.06	1.06
3.50	433	4.90	1.23	1.23
4.00	332	5.60	1.41	1.41
4.50	262	6.30	1.59	1.59

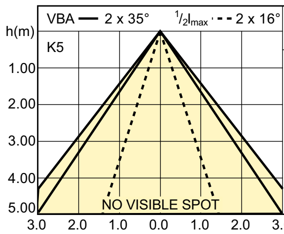


h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_v$
1.00	5544	1.40	0.39	0.39
1.50	2464	2.10	0.58	0.58
2.00	1386	2.80	0.78	0.78
2.50	887	3.50	0.97	0.97
3.00	616	4.20	1.17	1.17
3.50	453	4.90	1.36	1.36
4.00	347	5.60	1.56	1.56
4.50	274	6.30	1.75	1.75

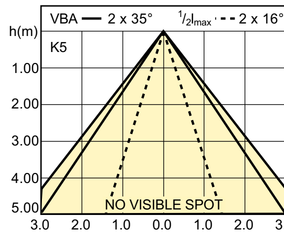


h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_v$
1.00	5822	1.40	0.35	0.35
1.50	2588	2.10	0.53	0.53
2.00	1456	2.80	0.71	0.71
2.50	932	3.50	0.88	0.88
3.00	647	4.20	1.06	1.06
3.50	475	4.90	1.23	1.23
4.00	364	5.60	1.41	1.41
4.50	288	6.30	1.59	1.59

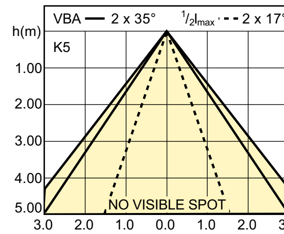
Beam Diagrams



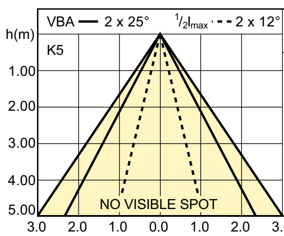
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	2593	1.40	0.57	0.54
1.50	1153	2.10	0.86	0.80
2.00	648	2.80	1.15	1.07
2.50	415	3.50	1.43	1.34
3.00	288	4.20	1.72	1.61
3.50	212	4.90	2.01	1.88
4.00	162	5.60	2.29	2.14
4.50	128	6.30	2.58	2.41



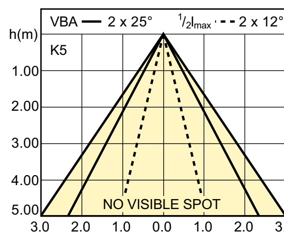
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	2673	1.40	0.57	0.54
1.50	1188	2.10	0.86	0.80
2.00	668	2.80	1.15	1.07
2.50	428	3.50	1.43	1.34
3.00	297	4.20	1.72	1.61
3.50	218	4.90	2.01	1.88
4.00	167	5.60	2.29	2.14
4.50	132	6.30	2.58	2.41



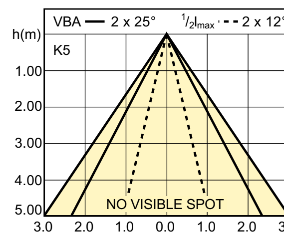
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	2724	1.40	0.61	0.57
1.50	1211	2.10	0.92	0.86
2.00	681	2.80	1.22	1.15
2.50	436	3.50	1.53	1.43
3.00	303	4.20	1.83	1.72
3.50	222	4.90	2.14	2.01
4.00	170	5.60	2.45	2.29
4.50	135	6.30	2.75	2.58



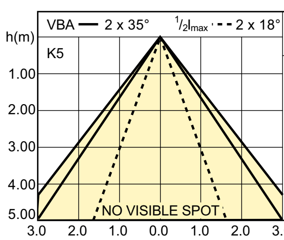
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	5290	0.93	0.43	0.39
1.50	2351	1.40	0.64	0.58
2.00	1322	1.87	0.85	0.78
2.50	846	2.33	1.06	0.97
3.00	588	2.80	1.28	1.17
3.50	432	3.26	1.49	1.36
4.00	331	3.73	1.70	1.56
4.50	261	4.20	1.91	1.75



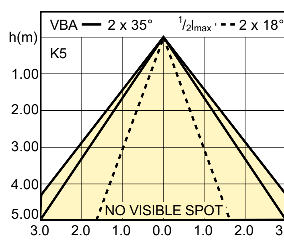
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	5266	0.93	0.43	0.43
1.50	2341	1.40	0.64	0.64
2.00	1317	1.87	0.85	0.85
2.50	843	2.33	1.06	1.06
3.00	585	2.80	1.28	1.28
3.50	430	3.26	1.49	1.49
4.00	329	3.73	1.70	1.70
4.50	260	4.20	1.91	1.91



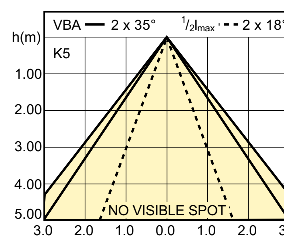
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	5752	0.93	0.43	0.39
1.50	2557	1.40	0.64	0.58
2.00	1438	1.87	0.85	0.78
2.50	920	2.33	1.06	0.97
3.00	639	2.80	1.28	1.17
3.50	470	3.26	1.49	1.36
4.00	360	3.73	1.70	1.56
4.50	284	4.20	1.91	1.75



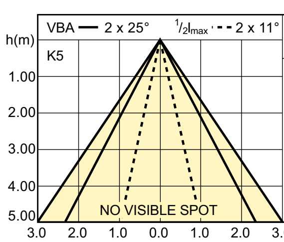
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	2421	1.40	0.65	0.61
1.50	1076	2.10	0.97	0.92
2.00	605	2.80	1.30	1.22
2.50	387	3.50	1.62	1.53
3.00	269	4.20	1.95	1.83
3.50	198	4.90	2.27	2.14
4.00	151	5.60	2.60	2.45
4.50	120	6.30	2.92	2.75



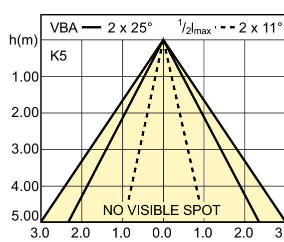
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	2649	1.40	0.65	0.61
1.50	1177	2.10	0.97	0.92
2.00	662	2.80	1.30	1.22
2.50	424	3.50	1.62	1.53
3.00	294	4.20	1.95	1.83
3.50	216	4.90	2.27	2.14
4.00	166	5.60	2.60	2.45
4.50	131	6.30	2.92	2.75



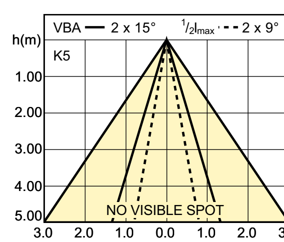
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	2628	1.40	0.65	0.61
1.50	1168	2.10	0.97	0.92
2.00	657	2.80	1.30	1.22
2.50	421	3.50	1.62	1.53
3.00	292	4.20	1.95	1.83
3.50	215	4.90	2.27	2.14
4.00	164	5.60	2.60	2.45
4.50	130	6.30	2.92	2.75



h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	5354	0.93	0.39	0.39
1.50	2380	1.40	0.58	0.58
2.00	1339	1.87	0.78	0.78
2.50	857	2.33	0.97	0.97
3.00	595	2.80	1.17	1.17
3.50	437	3.26	1.36	1.36
4.00	335	3.73	1.56	1.56
4.50	264	4.20	1.75	1.75

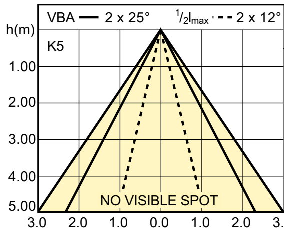


h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	5644	0.93	0.39	0.39
1.50	2508	1.40	0.58	0.58
2.00	1411	1.87	0.78	0.78
2.50	903	2.33	0.97	0.97
3.00	627	2.80	1.17	1.17
3.50	461	3.26	1.36	1.36
4.00	353	3.73	1.56	1.56
4.50	279	4.20	1.75	1.75

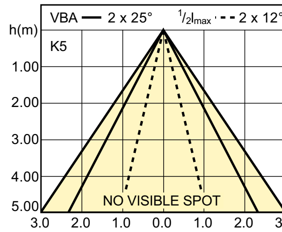


h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	2398	0.54	0.32	0.32
1.50	1066	0.80	0.48	0.48
2.00	599	1.07	0.63	0.63
2.50	384	1.34	0.79	0.79
3.00	266	1.61	0.95	0.95
3.50	196	1.88	1.11	1.11
4.00	150	2.14	1.27	1.27
4.50	118	2.41	1.43	1.43

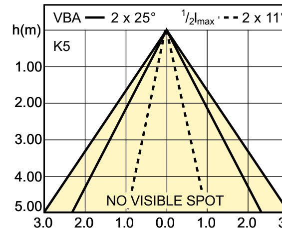
Beam Diagrams



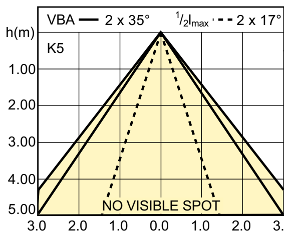
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	1743	0.93	0.43	0.43
1.50	775	1.40	0.64	0.64
2.00	436	1.87	0.85	0.85
2.50	279	2.33	1.06	1.06
3.00	194	2.80	1.28	1.28
3.50	142	3.26	1.49	1.49
4.00	109	3.73	1.70	1.70
4.50	86	4.20	1.91	1.91



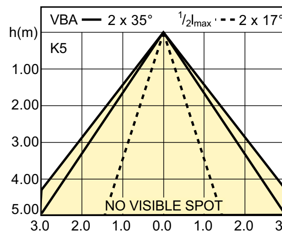
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	1947	0.93	0.43	0.39
1.50	865	1.40	0.64	0.58
2.00	487	1.87	0.85	0.78
2.50	312	2.33	1.06	0.97
3.00	216	2.80	1.28	1.17
3.50	159	3.26	1.49	1.36
4.00	122	3.73	1.70	1.56
4.50	96	4.20	1.91	1.75



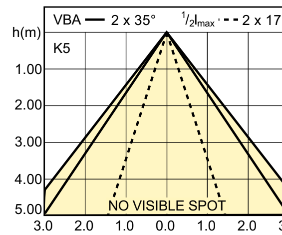
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	1926	0.93	0.39	0.39
1.50	856	1.40	0.58	0.58
2.00	481	1.87	0.78	0.78
2.50	308	2.33	0.97	0.97
3.00	214	2.80	1.17	1.17
3.50	157	3.26	1.36	1.36
4.00	120	3.73	1.56	1.56
4.50	95	4.20	1.75	1.75



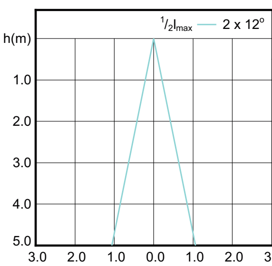
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	901	1.40	0.61	0.57
1.50	400	2.10	0.92	0.86
2.00	225	2.80	1.22	1.15
2.50	144	3.50	1.53	1.43
3.00	100	4.20	1.83	1.72
3.50	74	4.90	2.14	2.01
4.00	56	5.60	2.45	2.29
4.50	44	6.30	2.75	2.58



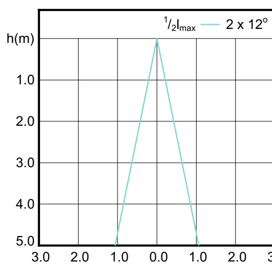
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	963	1.40	0.61	0.57
1.50	428	2.10	0.92	0.86
2.00	241	2.80	1.22	1.15
2.50	154	3.50	1.53	1.43
3.00	107	4.20	1.83	1.72
3.50	79	4.90	2.14	2.01
4.00	60	5.60	2.45	2.29
4.50	48	6.30	2.75	2.58



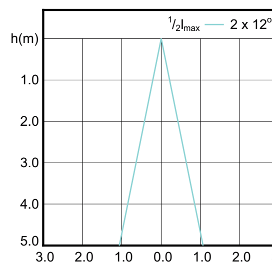
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.00	994	1.40	0.61	0.57
1.50	442	2.10	0.92	0.86
2.00	249	2.80	1.22	1.15
2.50	159	3.50	1.53	1.43
3.00	110	4.20	1.83	1.72
3.50	81	4.90	2.14	2.01
4.00	62	5.60	2.45	2.29
4.50	49	6.30	2.75	2.58



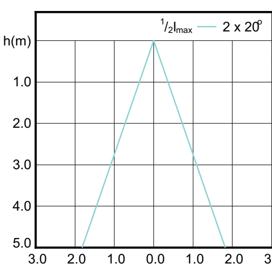
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.0	3384		0.43	0.39
1.5	1504		0.64	0.58
2.0	846		0.85	0.78
2.5	541		1.06	0.97
3.0	376		1.28	1.17
3.5	276		1.49	1.36
4.0	212		1.70	1.56
4.5	167		1.91	1.75



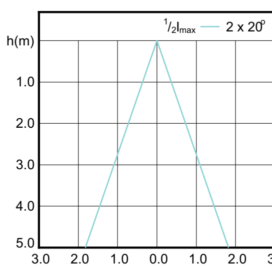
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.0	3384		0.43	0.39
1.5	1504		0.64	0.58
2.0	846		0.85	0.78
2.5	541		1.06	0.97
3.0	376		1.28	1.17
3.5	276		1.49	1.36
4.0	212		1.70	1.56
4.5	167		1.91	1.75



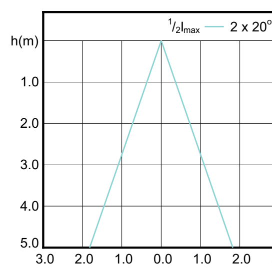
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.0	3384		0.43	0.39
1.5	1504		0.64	0.58
2.0	846		0.85	0.78
2.5	541		1.06	0.97
3.0	376		1.28	1.17
3.5	276		1.49	1.36
4.0	212		1.70	1.56
4.5	167		1.91	1.75



h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.0	1595		0.73	0.65
1.5	709		1.09	0.97
2.0	399		1.46	1.30
2.5	255		1.82	1.62
3.0	177		2.18	1.95
3.5	130		2.55	2.27
4.0	100		2.91	2.60
4.5	79		3.28	2.92



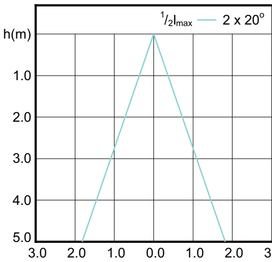
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.0	1595		0.73	0.65
1.5	709		1.09	0.97
2.0	399		1.46	1.30
2.5	255		1.82	1.62
3.0	177		2.18	1.95
3.5	130		2.55	2.27
4.0	100		2.91	2.60
4.5	79		3.28	2.92



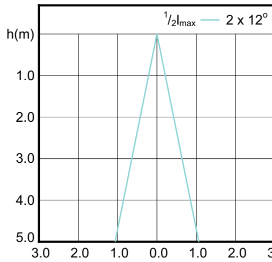
h (m)	E_0 (lx)	d(m) VBA	d(m) $\frac{1}{2}I_{max}$	d(m) $\frac{1}{2}E_0$
1.0	1595		0.73	0.65
1.5	709		1.09	0.97
2.0	399		1.46	1.30
2.5	255		1.82	1.62
3.0	177		2.18	1.95
3.5	130		2.55	2.27
4.0	100		2.91	2.60
4.5	79		3.28	2.92

PAR30/PAR20 LED

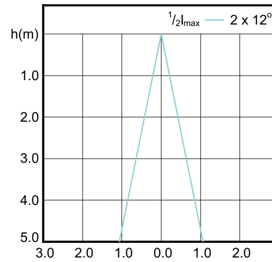
Beam Diagrams



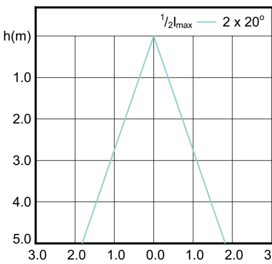
h (m)	E_0 (lx)	d(m) VBA	d(m) $^1/_2I_{max}$	d(m) $^1/_2E_0$
1.0	1595		0.73	0.65
1.5	709		1.09	0.97
2.0	399		1.46	1.30
2.5	255		1.82	1.62
3.0	177		2.18	1.95
3.5	130		2.55	2.27
4.0	100		2.91	2.60
4.5	79		3.28	2.92



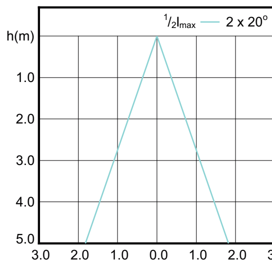
h (m)	E_0 (lx)	d(m) VBA	d(m) $^1/_2I_{max}$	d(m) $^1/_2E_0$
1.0	3384		0.43	0.39
1.5	1504		0.64	0.58
2.0	846		0.85	0.78
2.5	541		1.06	0.97
3.0	376		1.28	1.17
3.5	276		1.49	1.36
4.0	212		1.70	1.56
4.5	167		1.91	1.75



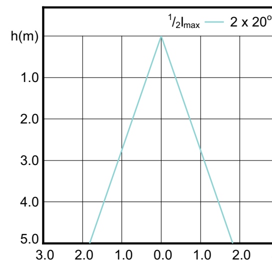
h (m)	E_0 (lx)	d(m) VBA	d(m) $^1/_2I_{max}$	d(m) $^1/_2E_0$
1.0	3384		0.43	0.39
1.5	1504		0.64	0.58
2.0	846		0.85	0.78
2.5	541		1.06	0.97
3.0	376		1.28	1.17
3.5	276		1.49	1.36
4.0	212		1.70	1.56
4.5	167		1.91	1.75



h (m)	E_0 (lx)	d(m) VBA	d(m) $^1/_2I_{max}$	d(m) $^1/_2E_0$
1.0	1595		0.73	0.65
1.5	709		1.09	0.97
2.0	399		1.46	1.30
2.5	255		1.82	1.62
3.0	177		2.18	1.95
3.5	130		2.55	2.27
4.0	100		2.91	2.60
4.5	79		3.28	2.92



h (m)	E_0 (lx)	d(m) VBA	d(m) $^1/_2I_{max}$	d(m) $^1/_2E_0$
1.0	1595		0.73	0.65
1.5	709		1.09	0.97
2.0	399		1.46	1.30
2.5	255		1.82	1.62
3.0	177		2.18	1.95
3.5	130		2.55	2.27
4.0	100		2.91	2.60
4.5	79		3.28	2.92



h (m)	E_0 (lx)	d(m) VBA	d(m) $^1/_2I_{max}$	d(m) $^1/_2E_0$
1.0	1595		0.73	0.65
1.5	709		1.09	0.97
2.0	399		1.46	1.30
2.5	255		1.82	1.62
3.0	177		2.18	1.95
3.5	130		2.55	2.27
4.0	100		2.91	2.60
4.5	79		3.28	2.92