

4" ROUND RETROFIT DOWNLIGHT OS SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTE4LEDOS10L35KE1-AR4223OSMWSO

CANDLEPOWER CURVE		TEST: 20141005-M-10L		
Angle	CP at 0°	Lumens/Zone		
0°	0	816		
5°	5	807		
10°	10	771	8%	
15°	15	709		
20°	20	642	28%	
25°	25	556		
30°	30	439	54%	
40°	40	204	74%	
50°	50	101		
60°	60	60	92%	
70°	70	32		
80°	80	13	99%	
90°	90	0	100%	

Delivered Lumens: 976
Luminaire Watts: 14.4
LER: 68

CP @ 0° (Nadir): 816
Beam Angle: 62°
Spacing Ratio: 0.96

SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	27	6.6'	10
6.5'	19	7.8'	7
7.5'	15	9.0'	5
8.0'	13	9.6'	5
8.5'	11	10.2'	4
9.0'	10	10.8'	4
10.0'	8	12.0'	3
11.0'	7	13.2'	2

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 2: Large Room		RCR 4: Medium Room	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	4'	52	0.79	50	0.90
	5'	37	0.56	37	0.68
9'	5'	34	0.51	36	0.64
	6'	23	0.35	28	0.51
10'	5'	30	0.46	27	0.48
	6'	26	0.40	22	0.40
11'	6'	24	0.36	21	0.38
	7'	18	0.27	16	0.29
Delivered Illuminance Rating: (DIR)		65 FC per W/Sq. Ft.		54 FC per W/Sq. Ft.	
*Average Footcandles at 2.5' above floor.					

CCT: 3500° K CRI: 84 CCT Output Factors: 40K 103%, 30K 95%, 27K 89% Multiplier for FC Values at 9W: 0.56

SGRTE4LEDOS20L35KE1-AR4223OSMWSO

CANDLEPOWER CURVE		TEST: 20141005-M-20L		
Angle	CP at 0°	Lumens/Zone		
0°	0	1331		
5°	5	1316		
10°	10	1258	8%	
15°	15	1157		
20°	20	1048	28%	
25°	25	908		
30°	30	716	54%	
40°	40	333	74%	
50°	50	165		
60°	60	98	92%	
70°	70	52		
80°	80	21	99%	
90°	90	0	100%	

Delivered Lumens: 1593
Luminaire Watts: 25.6
LER: 62

CP @ 0° (Nadir): 1331
Beam Angle: 62°
Spacing Ratio: 0.96

SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
6.5'	32	7.8'	12
7.5'	24	9.0'	9
8.0'	21	9.6'	8
8.5'	18	10.2'	7
9.0'	16	10.8'	6
10.0'	13	12.0'	5
11.0'	11	13.2'	4
12.0'	9	14.4'	3

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 2: Large Room		RCR 4: Medium Room	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
9'	5'	55	0.90	58	1.14
	6'	38	0.63	46	0.90
10'	5'	49	0.81	44	0.85
	6'	43	0.71	36	0.71
11'	6'	40	0.65	34	0.67
	7'	29	0.48	27	0.52
12'	7'	28	0.45	27	0.54
	8'	24	0.39	21	0.40
Delivered Illuminance Rating: (DIR)		61 FC per W/Sq. Ft.		51 FC per W/Sq. Ft.	
*Average Footcandles at 2.5' above floor.					

CCT: 3500° K CRI: 84 CCT Output Factors: 40K 103%, 30K 95%, 27K 89%

SGRTE4LEDOS30L35KE1-AR4223OSMWSO

CANDLEPOWER CURVE		TEST: 20141005-M-30L		
Angle	CP at 0°	Lumens/Zone		
0°	0	1993		
5°	5	1971		
10°	10	1883	8%	
15°	15	1733		
20°	20	1570	28%	
25°	25	1360		
30°	30	1073	54%	
40°	40	498	74%	
50°	50	246		
60°	60	147	92%	
70°	70	78		
80°	80	32	99%	
90°	90	0	100%	

Delivered Lumens: 2385
Luminaire Watts: 35.1
LER: 68

CP @ 0° (Nadir): 1993
Beam Angle: 62°
Spacing Ratio: 0.96

SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
7.5'	35	9.0'	13
8.0'	31	9.6'	11
8.5'	28	10.2'	10
9.0'	25	10.8'	9
10.0'	20	12.0'	7
11.0'	16	13.2'	6
12.0'	14	14.4'	5
14.0'	10	16.8'	4

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 2: Large Room		RCR 4: Medium Room	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
10'	5'	74	1.10	65	1.20
	6'	64	0.98	54	0.98
11'	6'	60	0.89	51	0.92
	7'	44	0.66	40	0.72
12'	7'	41	0.62	41	0.74
	8'	35	0.53	31	0.55
14'	7'	41	0.61	37	0.65
	8'	35	0.53	27	0.49
Delivered Illuminance Rating: (DIR)		66 FC per W/Sq. Ft.		55 FC per W/Sq. Ft.	
*Average Footcandles at 2.5' above floor.					

CCT: 3500° K CRI: 84 CCT Output Factors: 40K 103%, 30K 95%, 27K 89%