

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P790208

Luminaire Tested: LER6D20D010-EC6DR3020359040-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D20D010-EC6DR3020359040-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3545.9 lumens  
Efficiency: N/A  
Efficacy: 153.5 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

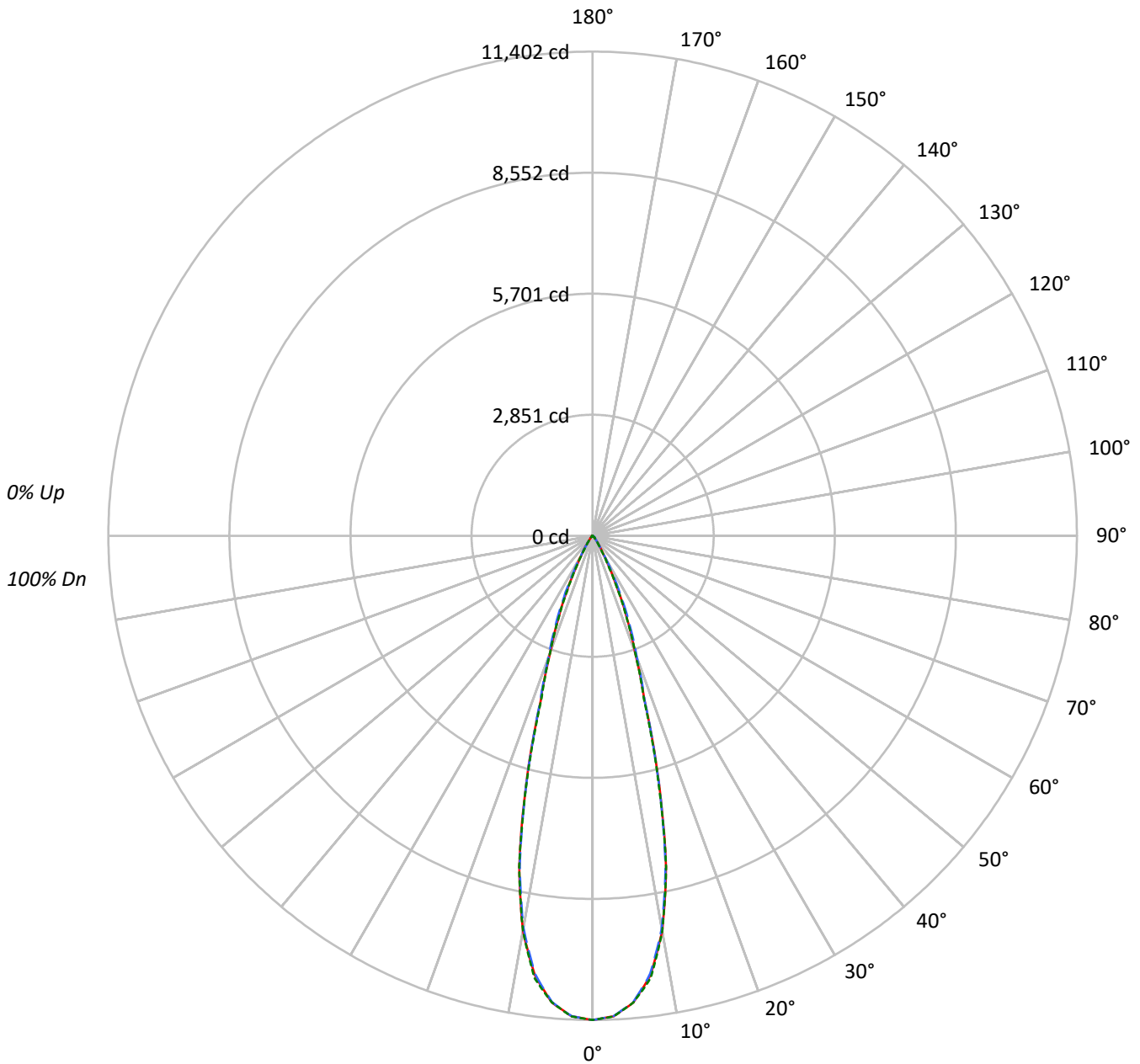


Downlight

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	872740	872740	872740
5°	847683	846692	847729
10°	734222	729045	734051
15°	479043	476468	474075
20°	238209	247145	237883
25°	119996	135307	117529
30°	48046	52350	41859
35°	22286	21342	17885
40°	9622	10681	9063
45°	6787	8422	6852
50°	2334	6133	2465
55°	1348	2536	1415
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8422 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1002.6	28.3
10°-20°	1614.7	45.5
20°-30°	697.8	19.7
30°-40°	159.0	4.5
40°-50°	54.6	1.5
50°-60°	13.3	0.4
60°-70°	3.5	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3315.1	93.5
0°-40°	3474.1	98.0
0°-60°	3542.1	99.9
0°-90°	3545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3545.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11402	11402	11402	11402	11402	
5°	11032	11022	11020	11042	11033	1003
15°	6045	5972	6013	5993	5982	1619
25°	1421	1474	1602	1437	1392	680
35°	238	244	228	227	191	162
45°	63	78	78	78	63	44
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11401.9	11401.9	11401.9	11401.9	11401.9
2.5°	11326.3	11318.4	11322.9	11328.5	11330.8
5°	11032.4	11021.8	11019.5	11042.5	11033.0
7.5°	10439.6	10424.5	10401.5	10453.6	10502.3
10°	9446.5	9429.7	9379.9	9404.5	9444.3
12.5°	7980.4	7926.1	7925.0	8003.4	7992.7
15°	6045.2	5972.4	6012.7	5993.1	5982.5
17.5°	4065.2	4037.2	4091.0	4074.7	4004.8
20°	2924.4	2931.6	3034.1	2982.6	2920.4
22.5°	2133.9	2160.2	2281.7	2149.0	2100.3
25°	1420.8	1474.5	1602.1	1437.0	1391.6
27.5°	873.8	898.5	1027.8	862.6	838.0
30°	543.6	531.2	592.3	508.3	473.6
32.5°	356.6	340.9	360.5	323.6	295.6
35°	238.5	243.5	228.4	226.7	191.4
37.5°	148.9	171.3	151.1	161.2	123.2
40°	96.3	124.3	106.9	118.1	90.7
42.5°	78.9	95.7	87.9	93.5	80.6
45°	62.7	77.8	77.8	77.8	63.3
47.5°	34.7	52.1	66.6	53.2	36.9
50°	19.6	26.3	51.5	27.4	20.7
52.5°	13.4	15.1	35.3	15.7	14.0
55°	10.1	10.6	19.0	11.2	10.6
57.5°	7.8	8.4	10.1	8.4	7.8
60°	6.2	6.2	7.3	6.7	6.2
62.5°	4.5	4.5	5.0	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)