

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: P790216

Luminaire Tested: LER6D20D010-EC6DR3020359050-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790216  
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-EC6DR3020359050-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3504.1 lumens  
Efficiency: N/A  
Efficacy: 151.7 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

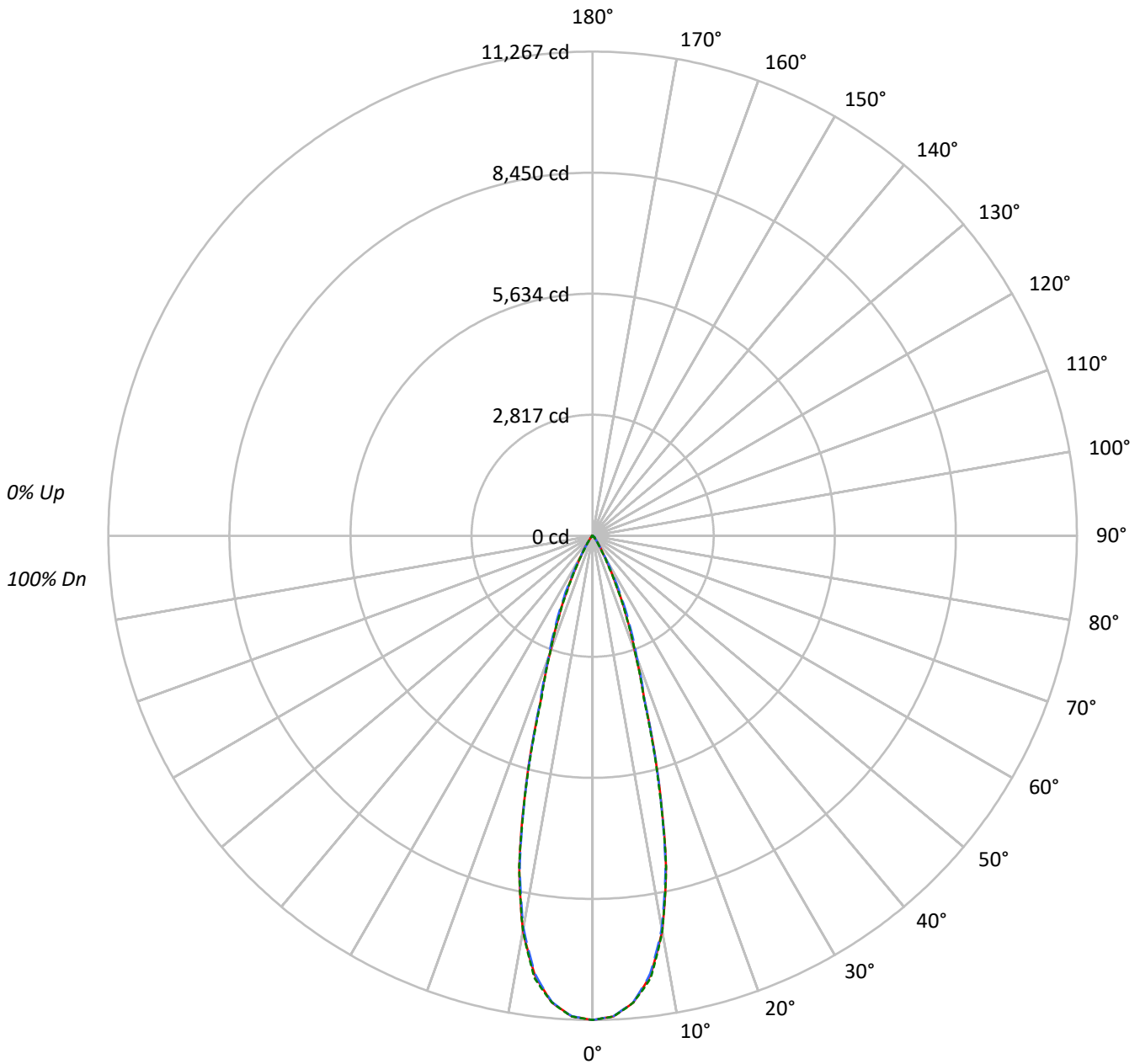


Downlight

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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	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°	862445	862445	862445
5°	837687	836711	837733
10°	725563	720449	725392
15°	473393	470849	468488
20°	235399	244229	235081
25°	118577	133711	116144
30°	47471	51732	41364
35°	22024	21090	17679
40°	9502	10562	8953
45°	6711	8324	6766
50°	2310	6061	2441
55°	1334	2509	1401
60°	934	1102	934
65°	598	598	598
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: 8324 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	990.8	28.3
10°-20°	1595.7	45.5
20°-30°	689.5	19.7
30°-40°	157.2	4.5
40°-50°	54.0	1.5
50°-60°	13.2	0.4
60°-70°	3.4	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°	3276.0	93.5
0°-40°	3433.2	98.0
0°-60°	3500.3	99.9
0°-90°	3504.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11267	11267	11267	11267	11267	
5°	10902	10892	10890	10912	10903	992
15°	5974	5902	5942	5922	5912	1600
25°	1404	1457	1583	1420	1375	672
35°	236	241	226	224	189	160
45°	62	77	77	77	62	44
55°	10	10	19	11	10	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°	11267.4	11267.4	11267.4	11267.4	11267.4
2.5°	11192.7	11185.0	11189.4	11194.9	11197.1
5°	10902.3	10891.8	10889.6	10912.3	10902.9
7.5°	10316.5	10301.5	10278.9	10330.3	10378.4
10°	9335.1	9318.5	9269.3	9293.6	9332.9
12.5°	7886.3	7832.6	7831.5	7909.0	7898.5
15°	5973.9	5902.0	5941.8	5922.5	5912.0
17.5°	4017.3	3989.6	4042.7	4026.7	3957.5
20°	2889.9	2897.1	2998.3	2947.4	2886.0
22.5°	2108.8	2134.8	2254.8	2123.7	2075.6
25°	1404.0	1457.1	1583.2	1420.0	1375.2
27.5°	863.5	887.9	1015.7	852.5	828.1
30°	537.1	525.0	585.3	502.3	468.0
32.5°	352.4	336.9	356.3	319.7	292.1
35°	235.7	240.6	225.7	224.0	189.2
37.5°	147.1	169.3	149.4	159.3	121.7
40°	95.1	122.8	105.7	116.7	89.6
42.5°	78.0	94.6	86.9	92.4	79.7
45°	62.0	76.9	76.9	76.9	62.5
47.5°	34.3	51.4	65.8	52.6	36.5
50°	19.4	26.0	50.9	27.1	20.5
52.5°	13.3	14.9	34.9	15.5	13.8
55°	10.0	10.5	18.8	11.1	10.5
57.5°	7.7	8.3	10.0	8.3	7.7
60°	6.1	6.1	7.2	6.6	6.1
62.5°	4.4	4.4	5.0	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
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)