

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: P790048

Luminaire Tested: LER6D20D010-EC6DR1515309030-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D20D010-EC6DR1515309030-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1936.8 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
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

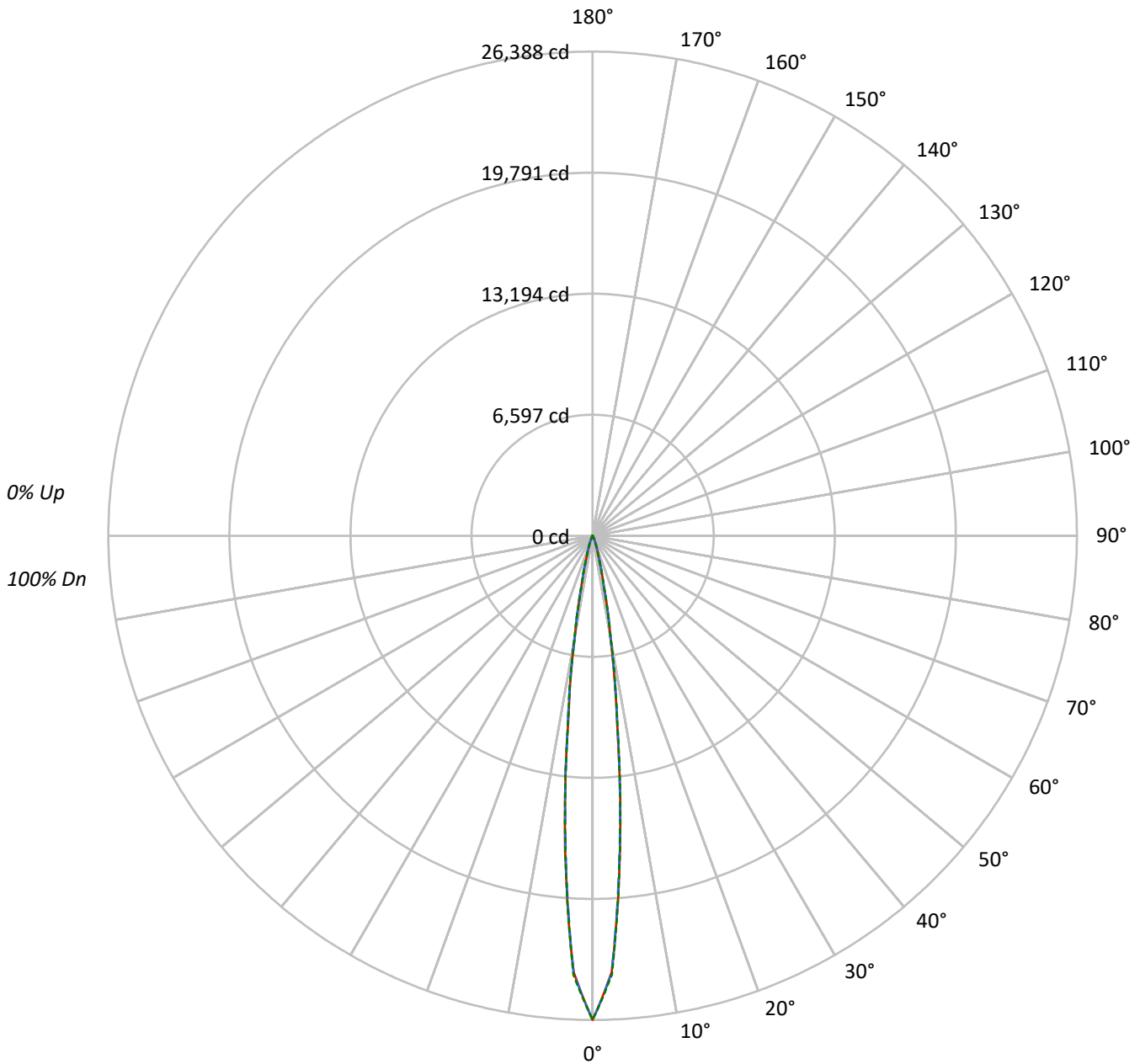


Downlight

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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						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

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

	0°	45°	90°
0°	2969233	2969233	2969233
5°	1744856	1722264	1735893
10°	520759	524407	532432
15°	129530	132057	127984
20°	38759	44880	39578
25°	13664	17403	13835
30°	5017	6612	5099
35°	2513	2839	2433
40°	1584	1747	1584
45°	1176	1253	1176
50°	932	932	932
55°	780	780	780
60°	625	625	625
65°	478	478	478
70°	410	410	410
75°	257	257	340
80°	173	173	173
85°	91	91	91

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1253 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1256.1	64.9
10°-20°	516.7	26.7
20°-30°	102.6	5.3
30°-40°	25.6	1.3
40°-50°	13.5	0.7
50°-60°	10.0	0.5
60°-70°	7.0	0.4
70°-80°	4.0	0.2
80°-90°	1.2	0.1
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°	1875.5	96.8
0°-40°	1901.1	98.2
0°-60°	1924.5	99.4
0°-90°	1936.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26388	26388	26388	26388	26388	
5°	17169	16992	16947	17064	17081	1254
15°	1491	1519	1520	1494	1474	511
25°	175	199	223	198	178	92
35°	35	37	39	37	34	23
45°	17	17	18	17	17	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	7
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26388.5	26388.5	26388.5	26388.5	26388.5
2.5°	23803.5	23823.6	23831.4	23854.9	23942.0
5°	17168.9	16992.4	16946.6	17063.9	17080.7
7.5°	10170.2	10206.0	10336.7	10365.7	10260.7
10°	5581.1	5626.9	5620.2	5660.4	5706.2
12.5°	2854.2	2818.5	2807.3	2853.1	2789.4
15°	1491.3	1519.3	1520.4	1493.6	1473.5
17.5°	802.1	834.5	888.1	844.5	777.5
20°	473.7	502.7	548.5	512.8	483.7
22.5°	292.7	316.1	348.5	320.6	297.2
25°	175.4	198.8	223.4	197.7	177.6
27.5°	103.9	124.0	139.6	122.9	102.8
30°	67.0	78.2	88.3	77.1	68.1
32.5°	46.9	51.4	55.9	51.4	46.9
35°	34.6	36.9	39.1	36.9	33.5
37.5°	26.8	29.0	30.2	27.9	25.7
40°	22.3	23.5	24.6	23.5	22.3
42.5°	19.0	20.1	20.1	20.1	19.0
45°	16.8	16.8	17.9	16.8	16.8
47.5°	14.5	14.5	15.6	14.5	14.5
50°	13.4	13.4	13.4	13.4	13.4
52.5°	12.3	12.3	12.3	12.3	12.3
55°	11.2	11.2	11.2	11.2	11.2
57.5°	10.1	10.1	10.1	10.1	10.1
60°	8.9	8.9	8.9	8.9	8.9
62.5°	7.8	7.8	7.8	7.8	7.8
65°	6.7	6.7	6.7	6.7	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	5.6	5.6	5.6	5.6	5.6
72.5°	4.5	4.5	4.5	4.5	4.5
75°	3.4	3.4	3.4	3.4	4.5
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
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)