

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: P787074

Luminaire Tested: LER6D02D010-EC6DR300210IC9024-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P787074  
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: LER6D02D010-EC6DR300210IC9024-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 480.8 lumens  
Efficiency: N/A  
Efficacy: 94.3 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): 5.1  
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

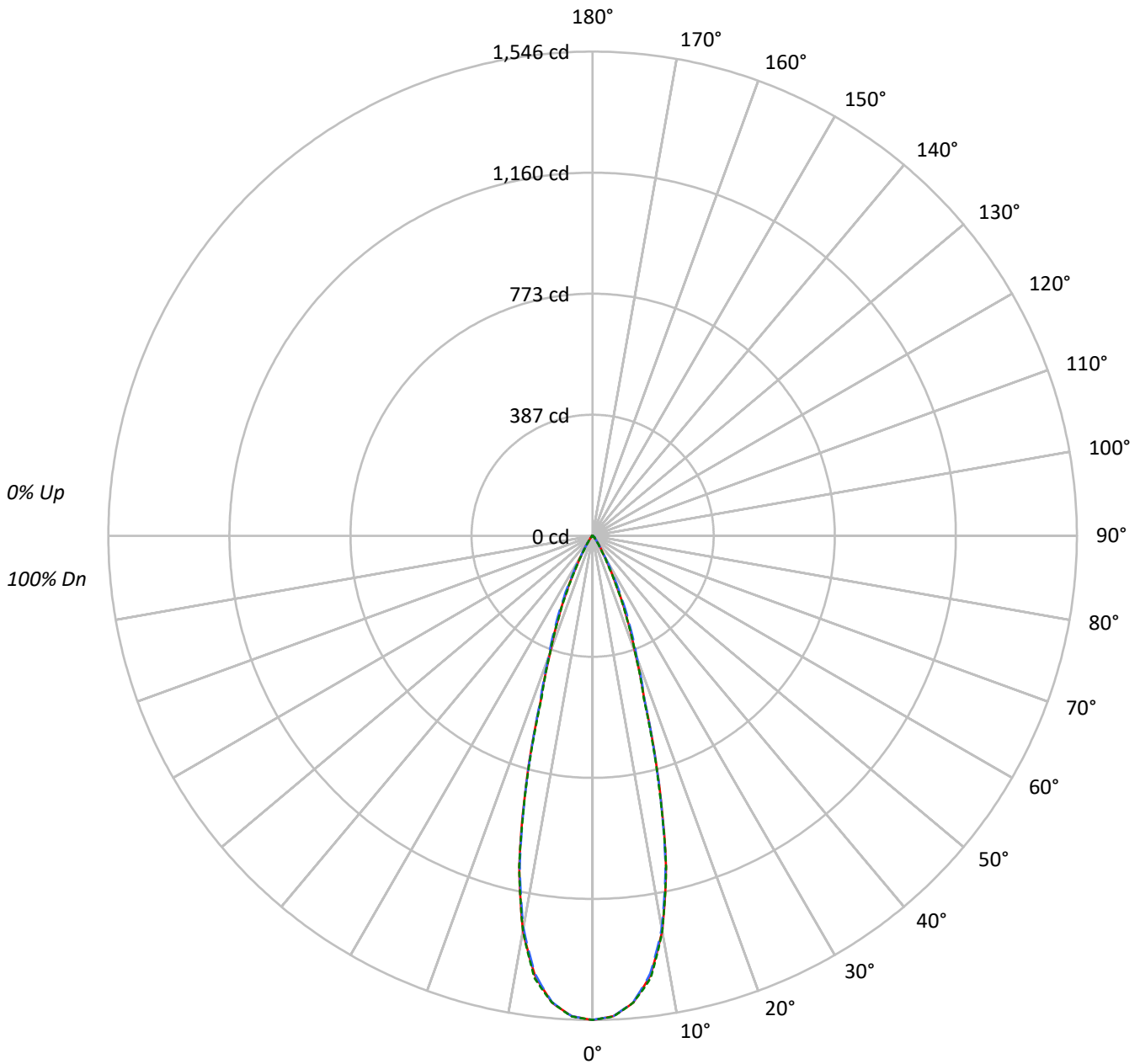


Downlight

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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°	118328	118328	118328
5°	114931	114800	114939
10°	99549	98850	99526
15°	64948	64599	64274
20°	32297	33511	32256
25°	16266	18344	15937
30°	6514	7097	5674
35°	3018	2897	2429
40°	1309	1449	1229
45°	920	1147	931
50°	322	834	333
55°	187	347	187
60°	122	153	122
65°	91	91	91
70°	45	45	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1147 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.9	28.3
10°-20°	218.9	45.5
20°-30°	94.6	19.7
30°-40°	21.6	4.5
40°-50°	7.4	1.5
50°-60°	1.8	0.4
60°-70°	0.5	0.1
70°-80°	0.1	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°	449.5	93.5
0°-40°	471.0	98.0
0°-60°	480.3	99.9
0°-90°	480.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	480.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1496	1494	1494	1497	1496	136
15°	820	810	815	813	811	219
25°	193	200	217	195	189	92
35°	32	33	31	31	26	22
45°	8	11	11	11	9	6
55°	1	1	3	2	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1545.9	1545.9	1545.9	1545.9	1545.9
2.5°	1535.7	1534.6	1535.2	1536.0	1536.3
5°	1495.8	1494.4	1494.1	1497.2	1495.9
7.5°	1415.5	1413.4	1410.3	1417.4	1424.0
10°	1280.8	1278.5	1271.8	1275.1	1280.5
12.5°	1082.0	1074.7	1074.5	1085.1	1083.7
15°	819.6	809.8	815.2	812.6	811.1
17.5°	551.2	547.4	554.7	552.5	543.0
20°	396.5	397.5	411.4	404.4	396.0
22.5°	289.3	292.9	309.4	291.4	284.8
25°	192.6	199.9	217.2	194.8	188.7
27.5°	118.5	121.8	139.4	117.0	113.6
30°	73.7	72.0	80.3	68.9	64.2
32.5°	48.3	46.2	48.9	43.9	40.1
35°	32.3	33.0	31.0	30.7	26.0
37.5°	20.2	23.2	20.5	21.9	16.7
40°	13.1	16.8	14.5	16.0	12.3
42.5°	10.7	13.0	11.9	12.7	10.9
45°	8.5	10.6	10.6	10.6	8.6
47.5°	4.7	7.1	9.0	7.2	5.0
50°	2.7	3.6	7.0	3.7	2.8
52.5°	1.8	2.0	4.8	2.1	1.9
55°	1.4	1.4	2.6	1.5	1.4
57.5°	1.1	1.1	1.4	1.1	1.1
60°	0.8	0.8	1.0	0.9	0.8
62.5°	0.6	0.6	0.7	0.6	0.6
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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