

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



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: P766388

Luminaire Tested: LD6D45BD010-EU6DR3040509027-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766388  
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: LD6D45BD010-EU6DR3040509027-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4146.4 lumens  
Efficiency: N/A  
Efficacy: 107.1 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): 38.7  
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

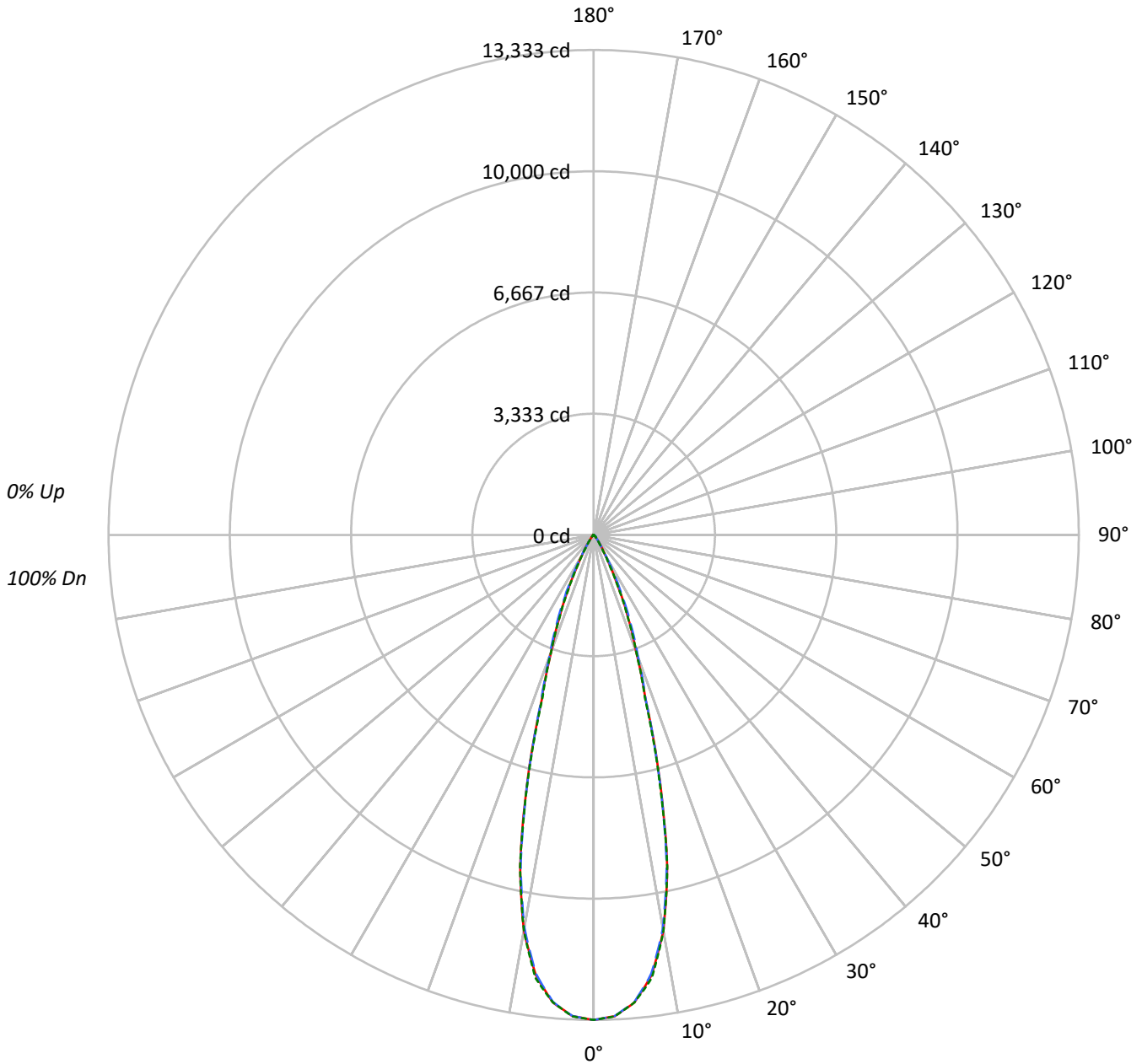


Downlight

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

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

	0°	45°	90°
0°	1020538	1020538	1020538
5°	991243	990083	991289
10°	858565	852510	858363
15°	560173	557161	554364
20°	278546	288997	278171
25°	140316	158229	137436
30°	56177	61215	48947
35°	26061	24958	20922
40°	11251	12490	10592
45°	7935	9851	8010
50°	2727	7169	2882
55°	1575	2976	1655
60°	1102	1301	1102
65°	706	706	706
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9851 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1172.4	28.3
10°-20°	1888.2	45.5
20°-30°	815.9	19.7
30°-40°	186.0	4.5
40°-50°	63.9	1.5
50°-60°	15.6	0.4
60°-70°	4.0	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°	3876.5	93.5
0°-40°	4062.5	98.0
0°-60°	4142.0	99.9
0°-90°	4146.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4146.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13333	13333	13333	13333	13333	
5°	12901	12888	12886	12913	12901	1173
15°	7069	6984	7031	7008	6996	1893
25°	1661	1724	1874	1680	1627	795
35°	279	285	267	265	224	189
45°	73	91	91	91	74	52
55°	12	12	22	13	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
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°	13332.8	13332.8	13332.8	13332.8	13332.8
2.5°	13244.5	13235.3	13240.5	13247.1	13249.7
5°	12900.8	12888.4	12885.7	12912.6	12901.4
7.5°	12207.6	12189.9	12163.1	12223.9	12280.9
10°	11046.3	11026.7	10968.4	10997.2	11043.7
12.5°	9331.9	9268.4	9267.1	9358.8	9346.3
15°	7069.0	6983.9	7031.0	7008.1	6995.7
17.5°	4753.7	4720.9	4783.8	4764.8	4683.0
20°	3419.6	3428.1	3547.9	3487.7	3415.0
22.5°	2495.3	2526.1	2668.1	2513.0	2456.0
25°	1661.4	1724.2	1873.5	1680.3	1627.3
27.5°	1021.8	1050.6	1201.8	1008.7	979.9
30°	635.6	621.2	692.6	594.4	553.8
32.5°	417.0	398.6	421.6	378.4	345.6
35°	278.9	284.7	267.1	265.1	223.9
37.5°	174.1	200.3	176.7	188.5	144.0
40°	112.6	145.3	125.0	138.1	106.0
42.5°	92.3	111.9	102.8	109.3	94.3
45°	73.3	91.0	91.0	91.0	74.0
47.5°	40.6	60.9	77.9	62.2	43.2
50°	22.9	30.8	60.2	32.1	24.2
52.5°	15.7	17.7	41.2	18.3	16.4
55°	11.8	12.4	22.3	13.1	12.4
57.5°	9.2	9.8	11.8	9.8	9.2
60°	7.2	7.2	8.5	7.9	7.2
62.5°	5.2	5.2	5.9	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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

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Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)