

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: P766386

Luminaire Tested: LD6D45BD010-EU6DR3040509027-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766386  
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-EU6DR3040509027-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4648.2 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

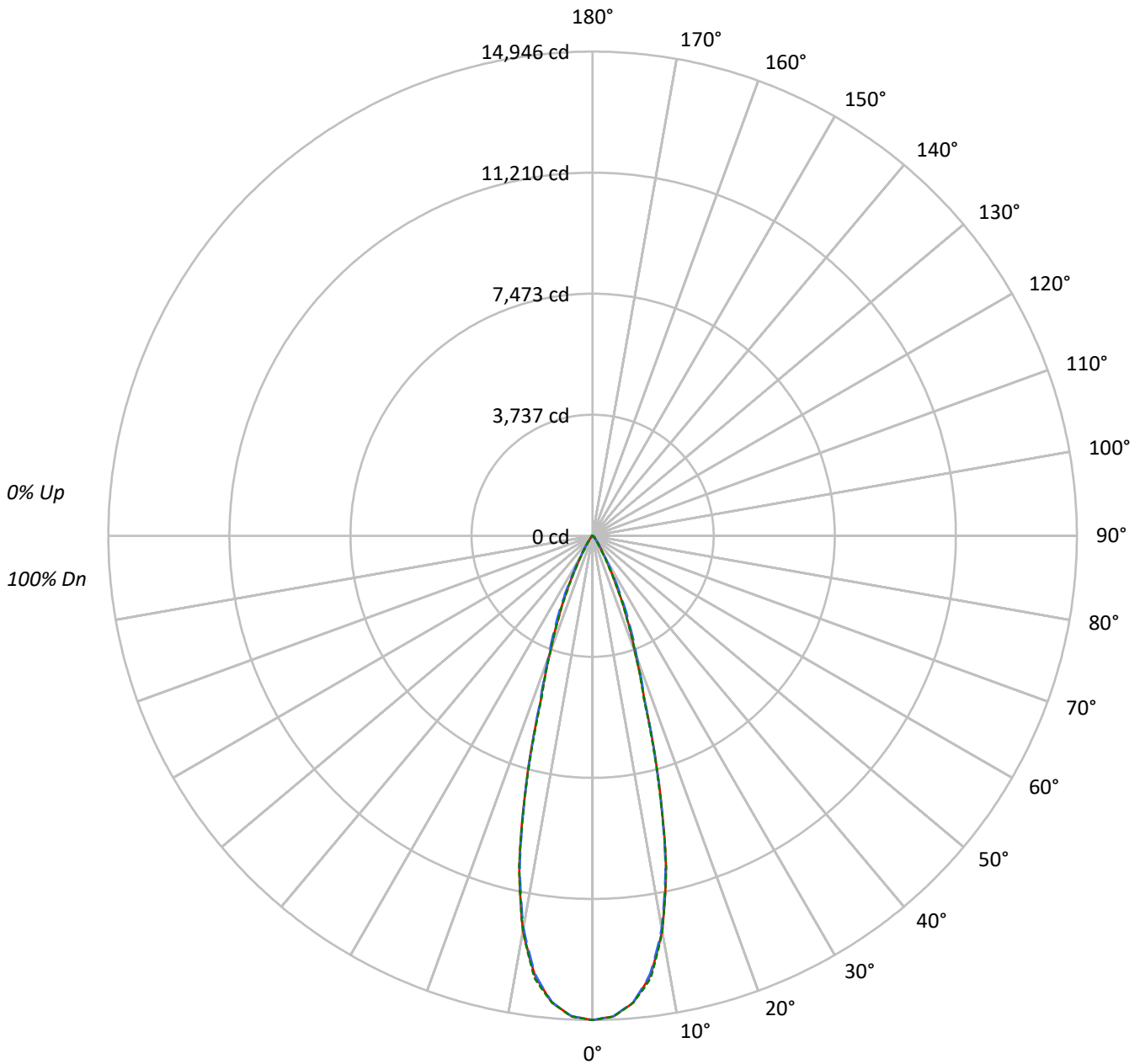


Downlight

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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	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°	1144033	1144033	1144033
5°	1111191	1109893	1111245
10°	962459	955673	962226
15°	627958	624582	621444
20°	312253	323966	311837
25°	157291	177375	154065
30°	62974	68622	54869
35°	29210	27977	23454
40°	12610	14009	11881
45°	8898	11041	8974
50°	3060	8038	3239
55°	1762	3323	1855
60°	1240	1454	1240
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11041 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1314.3	28.3
10°-20°	2116.7	45.5
20°-30°	914.7	19.7
30°-40°	208.5	4.5
40°-50°	71.6	1.5
50°-60°	17.5	0.4
60°-70°	4.5	0.1
70°-80°	0.5	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°	4345.6	93.5
0°-40°	4554.1	98.0
0°-60°	4643.2	99.9
0°-90°	4648.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4648.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14946	14946	14946	14946	14946	
5°	14462	14448	14445	14475	14463	1315
15°	7924	7829	7882	7856	7842	2122
25°	1862	1933	2100	1884	1824	891
35°	313	319	299	297	251	212
45°	82	102	102	102	83	58
55°	13	14	25	15	14	13
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14946.2	14946.2	14946.2	14946.2	14946.2
2.5°	14847.1	14836.8	14842.7	14850.0	14853.0
5°	14461.9	14447.9	14445.0	14475.1	14462.6
7.5°	13684.8	13664.9	13634.9	13703.1	13766.9
10°	12383.0	12361.0	12295.7	12327.9	12380.0
12.5°	10461.1	10390.0	10388.5	10491.2	10477.3
15°	7924.4	7829.0	7881.8	7856.1	7842.2
17.5°	5328.9	5292.2	5362.7	5341.4	5249.7
20°	3833.4	3842.9	3977.2	3909.7	3828.3
22.5°	2797.3	2831.8	2991.0	2817.1	2753.2
25°	1862.4	1932.8	2100.2	1883.7	1824.2
27.5°	1145.5	1177.8	1347.3	1130.8	1098.5
30°	712.5	696.4	776.4	666.3	620.8
32.5°	467.4	446.9	472.6	424.1	387.4
35°	312.6	319.2	299.4	297.2	251.0
37.5°	195.2	224.5	198.1	211.3	161.4
40°	126.2	162.9	140.2	154.8	118.9
42.5°	103.5	125.5	115.2	122.5	105.7
45°	82.2	102.0	102.0	102.0	82.9
47.5°	45.5	68.2	87.3	69.7	48.4
50°	25.7	34.5	67.5	36.0	27.2
52.5°	17.6	19.8	46.2	20.5	18.3
55°	13.2	13.9	24.9	14.7	13.9
57.5°	10.3	11.0	13.2	11.0	10.3
60°	8.1	8.1	9.5	8.8	8.1
62.5°	5.9	5.9	6.6	5.9	5.9
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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

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)