

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: P766372

Luminaire Tested: LD6D45BD010-EU6DR3040509024-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766372  
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-EU6DR3040509024-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3303.6 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

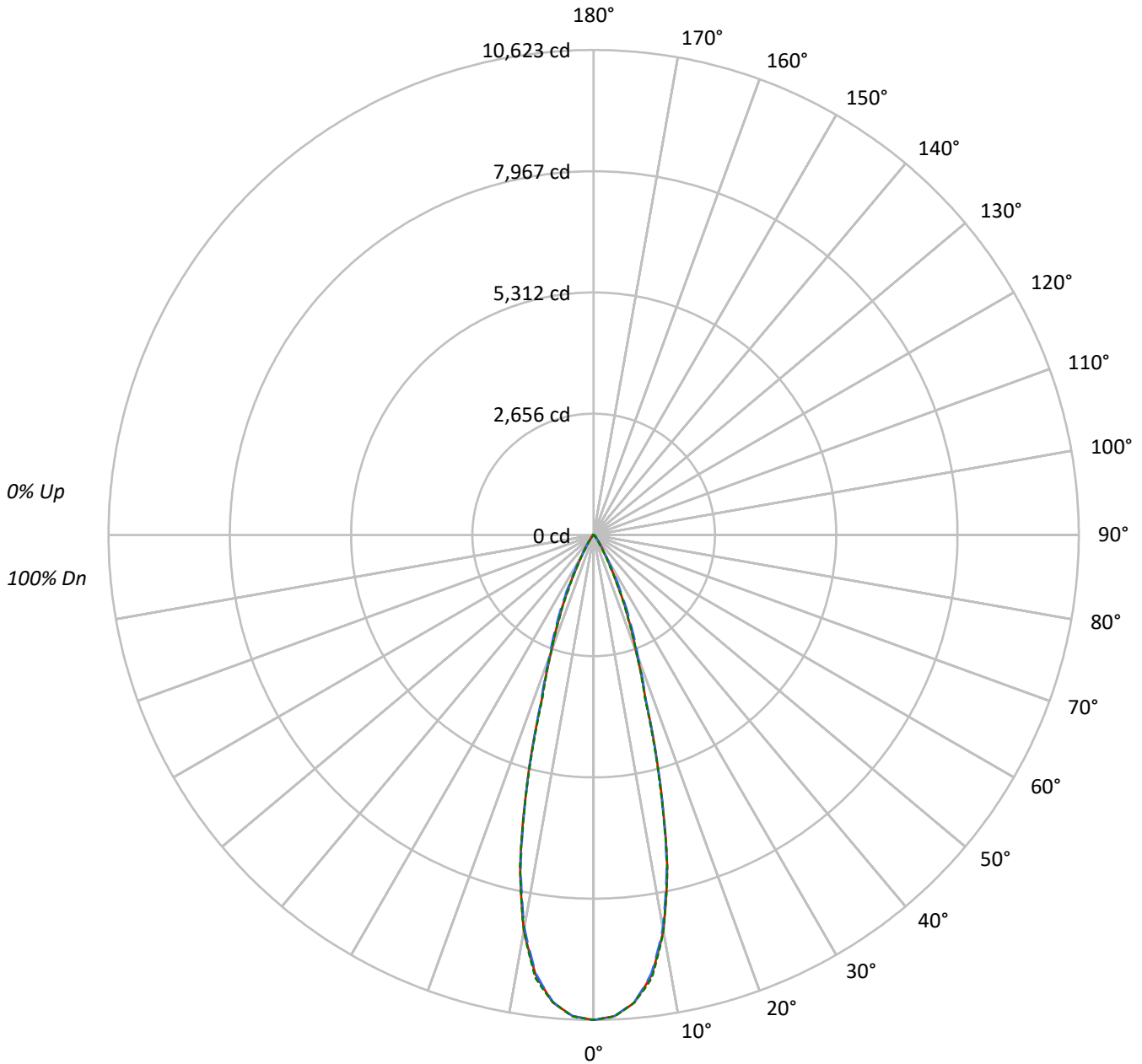


Downlight

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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°	813090	813090	813090
5°	789749	788827	789787
10°	684043	679216	683880
15°	446300	443907	441672
20°	221926	230251	221625
25°	111795	126059	109498
30°	44758	48771	38995
35°	20763	19885	16670
40°	8963	9952	8443
45°	6322	7848	6376
50°	2179	5716	2298
55°	1254	2362	1321
60°	873	1041	873
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7848 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	934.1	28.3
10°-20°	1504.4	45.5
20°-30°	650.1	19.7
30°-40°	148.2	4.5
40°-50°	50.9	1.5
50°-60°	12.4	0.4
60°-70°	3.2	0.1
70°-80°	0.3	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°	3088.5	93.5
0°-40°	3236.7	98.0
0°-60°	3300.0	99.9
0°-90°	3303.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3303.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10623	10623	10623	10623	10623	
5°	10278	10268	10266	10288	10279	935
15°	5632	5564	5602	5584	5574	1508
25°	1324	1374	1493	1339	1296	634
35°	222	227	213	211	178	151
45°	58	72	72	72	59	41
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10622.6	10622.6	10622.6	10622.6	10622.6
2.5°	10552.2	10544.9	10549.1	10554.3	10556.4
5°	10278.4	10268.5	10266.4	10287.8	10278.9
7.5°	9726.1	9712.0	9690.6	9739.1	9784.5
10°	8800.9	8785.2	8738.8	8761.8	8798.8
12.5°	7435.0	7384.4	7383.3	7456.4	7446.4
15°	5632.0	5564.2	5601.8	5583.5	5573.6
17.5°	3787.4	3761.3	3811.4	3796.2	3731.0
20°	2724.5	2731.3	2826.7	2778.7	2720.8
22.5°	1988.1	2012.6	2125.8	2002.2	1956.8
25°	1323.7	1373.7	1492.6	1338.8	1296.5
27.5°	814.1	837.1	957.5	803.7	780.7
30°	506.4	494.9	551.8	473.6	441.2
32.5°	332.2	317.6	335.9	301.4	275.4
35°	222.2	226.9	212.8	211.2	178.4
37.5°	138.7	159.6	140.8	150.2	114.7
40°	89.7	115.8	99.6	110.0	84.5
42.5°	73.5	89.2	81.9	87.1	75.1
45°	58.4	72.5	72.5	72.5	58.9
47.5°	32.3	48.5	62.1	49.5	34.4
50°	18.3	24.5	48.0	25.6	19.3
52.5°	12.5	14.1	32.9	14.6	13.0
55°	9.4	9.9	17.7	10.4	9.9
57.5°	7.3	7.8	9.4	7.8	7.3
60°	5.7	5.7	6.8	6.3	5.7
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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