

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: P766400

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766400  
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-EU6DR3040509030-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5028.1 lumens  
Efficiency: N/A  
Efficacy: 129.9 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

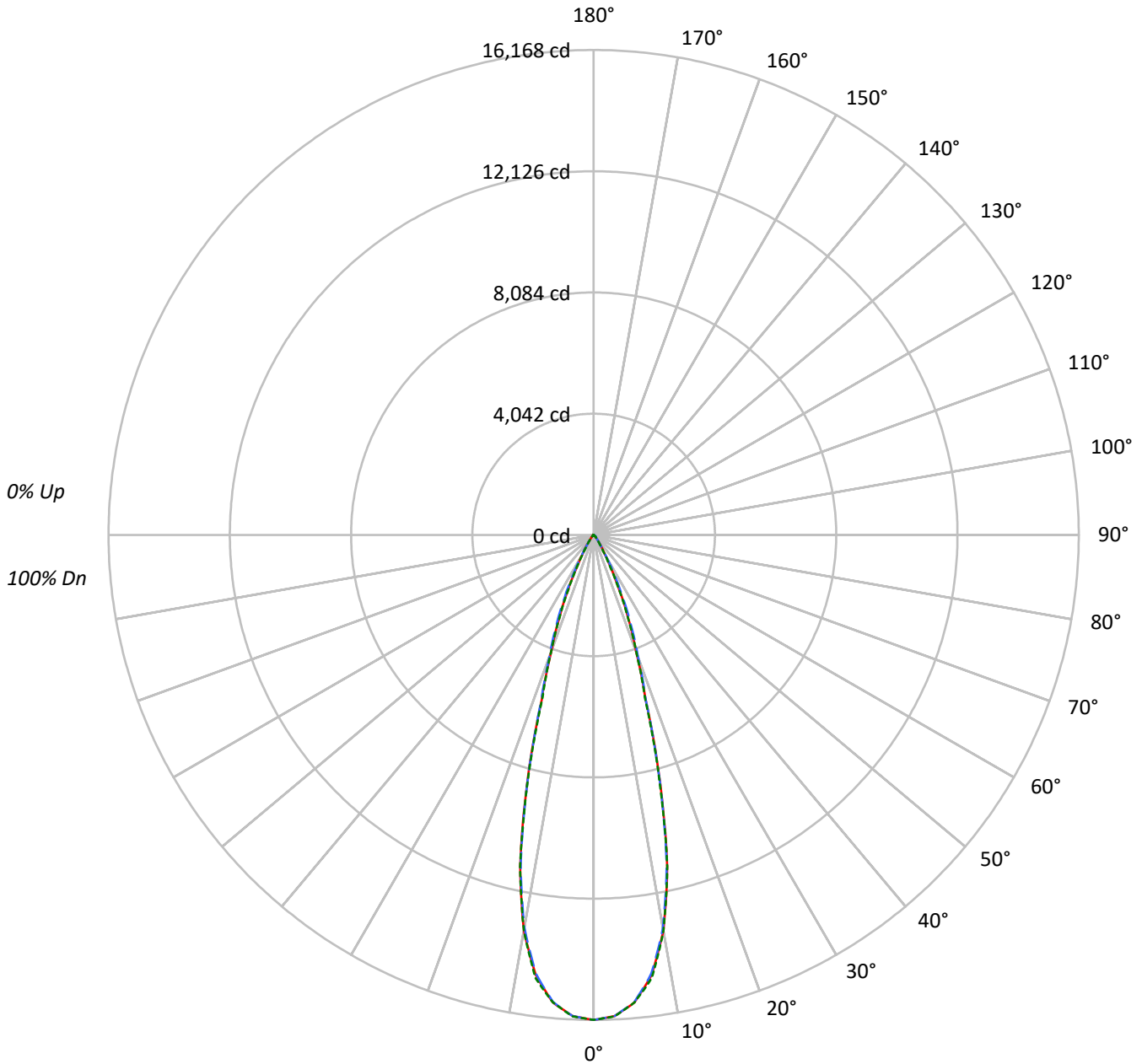
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1237531	1237531	1237531
5°	1202004	1200605	1202065
10°	1041123	1033779	1040875
15°	679276	675631	672231
20°	337773	350447	337325
25°	170146	191868	166658
30°	68127	74225	59350
35°	31602	30266	25370
40°	13639	15148	12850
45°	9623	11940	9710
50°	3310	8693	3501
55°	1908	3603	2015
60°	1332	1577	1332
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11940 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1421.7	28.3
10°-20°	2289.7	45.5
20°-30°	989.4	19.7
30°-40°	225.5	4.5
40°-50°	77.4	1.5
50°-60°	18.9	0.4
60°-70°	4.9	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°	4700.8	93.5
0°-40°	4926.3	98.0
0°-60°	5022.6	99.9
0°-90°	5028.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5028.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16168	16168	16168	16168	16168	
5°	15644	15629	15626	15658	15645	1423
15°	8572	8469	8526	8498	8483	2295
25°	2015	2091	2272	2038	1973	964
35°	338	345	324	322	272	229
45°	89	110	110	110	90	63
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
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°	16167.7	16167.7	16167.7	16167.7	16167.7
2.5°	16060.6	16049.5	16055.8	16063.7	16066.9
5°	15643.8	15628.8	15625.6	15658.1	15644.6
7.5°	14803.2	14781.8	14749.2	14823.1	14892.1
10°	13395.1	13371.2	13300.6	13335.5	13391.9
12.5°	11316.1	11239.1	11237.6	11348.7	11333.6
15°	8572.0	8468.8	8526.0	8498.2	8483.1
17.5°	5764.4	5724.7	5801.0	5777.9	5678.7
20°	4146.7	4157.0	4302.3	4229.3	4141.2
22.5°	3025.9	3063.2	3235.5	3047.3	2978.3
25°	2014.6	2090.8	2271.8	2037.6	1973.3
27.5°	1239.1	1274.0	1457.4	1223.2	1188.3
30°	770.8	753.3	839.8	720.8	671.5
32.5°	505.6	483.4	511.2	458.8	419.1
35°	338.2	345.3	323.9	321.5	271.5
37.5°	211.1	242.9	214.3	228.6	174.6
40°	136.5	176.2	151.6	167.5	128.6
42.5°	111.9	135.7	124.6	132.6	114.3
45°	88.9	110.3	110.3	110.3	89.7
47.5°	49.2	73.8	94.5	75.4	52.4
50°	27.8	37.3	73.0	38.9	29.4
52.5°	19.1	21.4	50.0	22.2	19.8
55°	14.3	15.1	27.0	15.9	15.1
57.5°	11.1	11.9	14.3	11.9	11.1
60°	8.7	8.7	10.3	9.5	8.7
62.5°	6.4	6.4	7.1	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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