

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: P766403

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766403  
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-EU6DR3040509030-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-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: 5040.7 lumens  
Efficiency: N/A  
Efficacy: 130.3 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

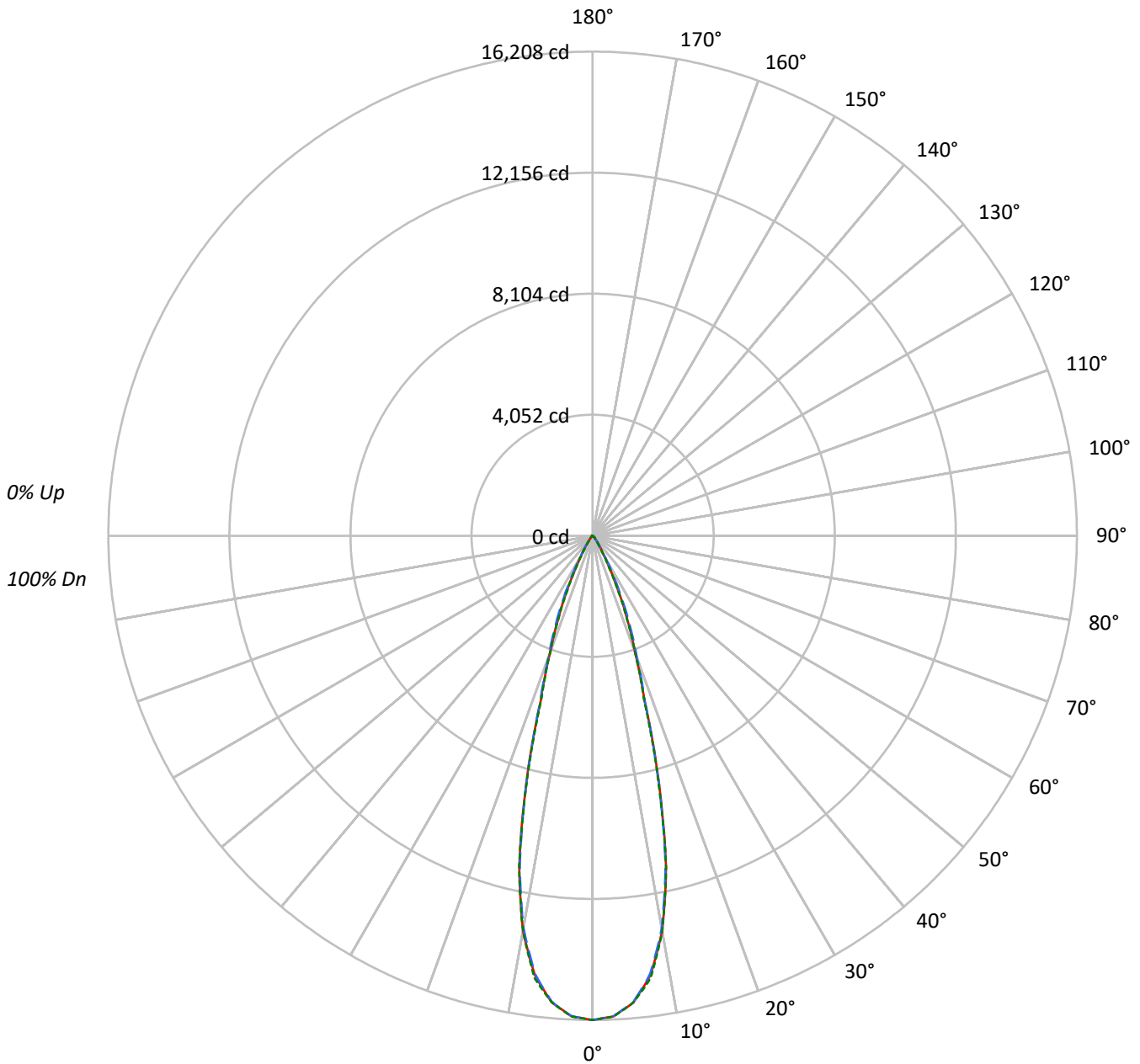
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1240638	1240638	1240638
5°	1205016	1203609	1205077
10°	1043727	1036367	1043478
15°	680979	677326	673919
20°	338620	351327	338164
25°	170576	192349	167080
30°	68295	74411	59501
35°	31677	30341	25435
40°	13679	15188	12880
45°	9645	11972	9732
50°	3322	8717	3501
55°	1908	3616	2015
60°	1347	1577	1347
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: 11972 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1425.3	28.3
10°-20°	2295.4	45.5
20°-30°	991.9	19.7
30°-40°	226.1	4.5
40°-50°	77.6	1.5
50°-60°	19.0	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°	4712.6	93.5
0°-40°	4938.7	98.0
0°-60°	5035.3	99.9
0°-90°	5040.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5040.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16208	16208	16208	16208	16208	
5°	15683	15668	15665	15697	15684	1426
15°	8594	8490	8547	8520	8504	2301
25°	2020	2096	2278	2043	1978	967
35°	339	346	325	322	272	230
45°	89	111	111	111	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°	16208.3	16208.3	16208.3	16208.3	16208.3
2.5°	16100.8	16089.7	16096.0	16104.0	16107.2
5°	15683.0	15667.9	15664.7	15697.4	15683.8
7.5°	14840.3	14818.8	14786.2	14860.2	14929.4
10°	13428.6	13404.8	13333.9	13368.9	13425.4
12.5°	11344.5	11267.3	11265.7	11377.1	11362.0
15°	8593.5	8490.1	8547.4	8519.5	8504.4
17.5°	5778.9	5739.1	5815.5	5792.4	5692.9
20°	4157.1	4167.4	4313.1	4239.9	4151.5
22.5°	3033.5	3070.9	3243.6	3055.0	2985.7
25°	2019.7	2096.1	2277.5	2042.7	1978.3
27.5°	1242.2	1277.2	1461.0	1226.3	1191.3
30°	772.7	755.2	841.9	722.6	673.2
32.5°	506.9	484.6	512.5	460.0	420.2
35°	339.0	346.2	324.7	322.3	272.2
37.5°	211.7	243.5	214.9	229.2	175.1
40°	136.9	176.7	152.0	167.9	128.9
42.5°	112.2	136.1	124.9	132.9	114.6
45°	89.1	110.6	110.6	110.6	89.9
47.5°	49.3	74.0	94.7	75.6	52.5
50°	27.9	37.4	73.2	39.0	29.4
52.5°	19.1	21.5	50.1	22.3	19.9
55°	14.3	15.1	27.1	15.9	15.1
57.5°	11.1	11.9	14.3	11.9	11.1
60°	8.8	8.8	10.3	9.5	8.8
62.5°	6.4	6.4	7.2	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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