

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: P766377

Luminaire Tested: LD6D45BD010-EU6DR3040509024-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766377  
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-EU6DR3040509024-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4319.3 lumens  
Efficiency: N/A  
Efficacy: 111.6 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

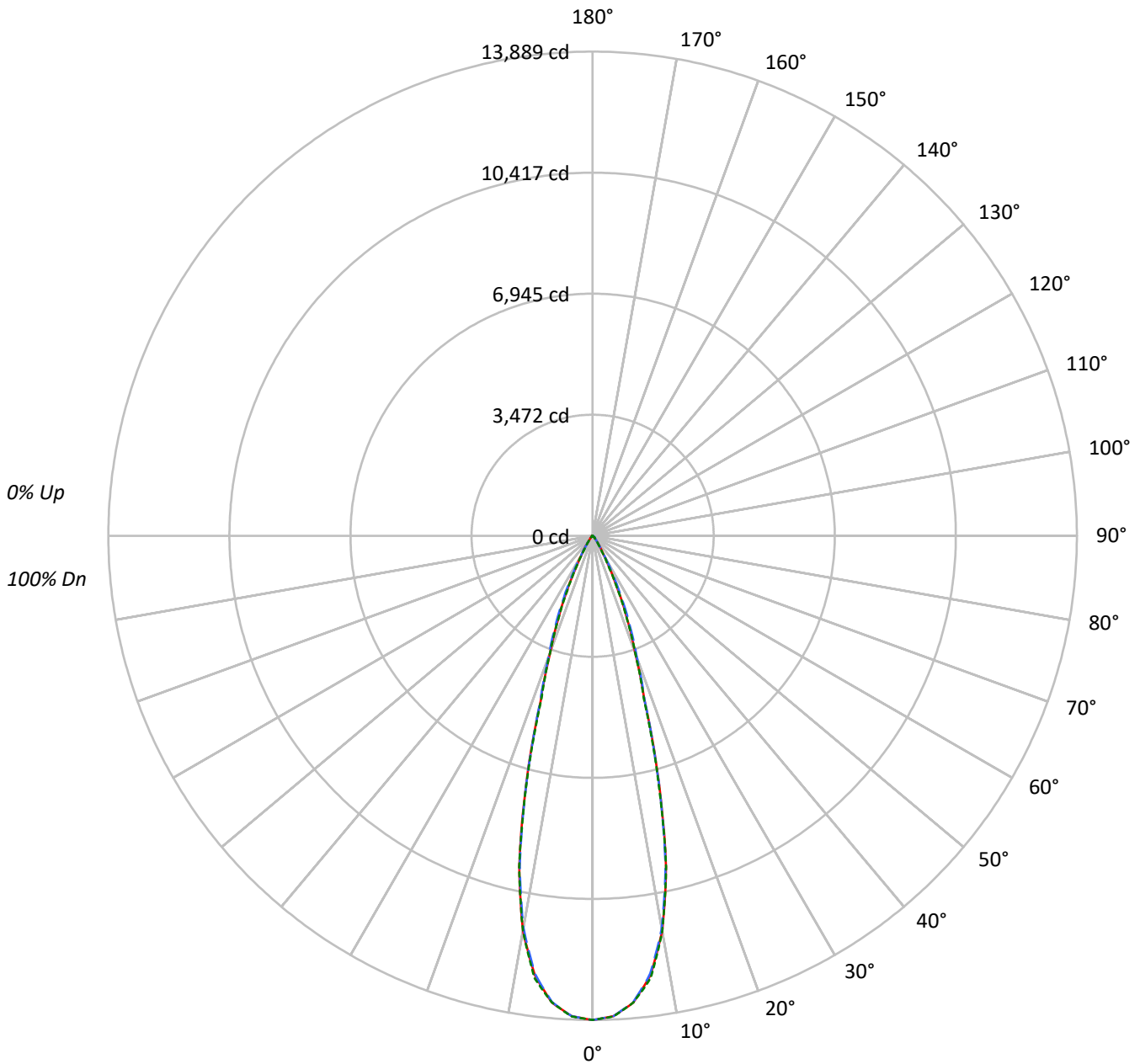
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1063088	1063088	1063088
5°	1032565	1031359	1032619
10°	894357	888053	894147
15°	583526	580388	577472
20°	290162	301044	289771
25°	146160	164825	143170
30°	58520	63761	50989
35°	27145	25996	21791
40°	11721	13010	11041
45°	8270	10262	8346
50°	2846	7466	3001
55°	1641	3096	1735
60°	1148	1362	1148
65°	743	743	743
70°	448	313	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: 10262 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1221.3	28.3
10°-20°	1966.9	45.5
20°-30°	850.0	19.7
30°-40°	193.7	4.5
40°-50°	66.5	1.5
50°-60°	16.2	0.4
60°-70°	4.2	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°	4038.2	93.5
0°-40°	4231.9	98.0
0°-60°	4314.7	99.9
0°-90°	4319.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4319.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13889	13889	13889	13889	13889	
5°	13439	13426	13423	13451	13439	1222
15°	7364	7275	7324	7300	7287	1972
25°	1731	1796	1952	1750	1695	828
35°	290	297	278	276	233	197
45°	76	95	95	95	77	54
55°	12	13	23	14	13	12
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°	13888.7	13888.7	13888.7	13888.7	13888.7
2.5°	13796.6	13787.1	13792.5	13799.3	13802.1
5°	13438.6	13425.7	13422.9	13450.9	13439.3
7.5°	12716.5	12698.1	12670.1	12733.6	12792.9
10°	11506.8	11486.4	11425.7	11455.7	11504.1
12.5°	9721.0	9654.8	9653.5	9748.9	9736.0
15°	7363.7	7275.1	7324.1	7300.3	7287.3
17.5°	4951.9	4917.8	4983.2	4963.5	4878.2
20°	3562.2	3571.0	3695.8	3633.1	3557.4
22.5°	2599.4	2631.4	2779.4	2617.8	2558.4
25°	1730.6	1796.1	1951.6	1750.4	1695.2
27.5°	1064.4	1094.4	1251.9	1050.8	1020.8
30°	662.1	647.1	721.4	619.2	576.9
32.5°	434.4	415.3	439.1	394.1	360.0
35°	290.5	296.6	278.2	276.2	233.2
37.5°	181.4	208.7	184.1	196.4	150.0
40°	117.3	151.4	130.2	143.9	110.5
42.5°	96.1	116.6	107.1	113.9	98.2
45°	76.4	94.8	94.8	94.8	77.1
47.5°	42.3	63.4	81.1	64.8	45.0
50°	23.9	32.0	62.7	33.4	25.2
52.5°	16.4	18.4	43.0	19.1	17.0
55°	12.3	13.0	23.2	13.6	13.0
57.5°	9.5	10.2	12.3	10.2	9.5
60°	7.5	7.5	8.9	8.2	7.5
62.5°	5.5	5.5	6.1	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	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







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

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(END OF REPORT)