

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: P766369

Luminaire Tested: LD6D45BD010-EU6DR3040509024-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766369
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-EU6DR3040509024-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3747.1 lumens
Efficiency: N/A
Efficacy: 96.8 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

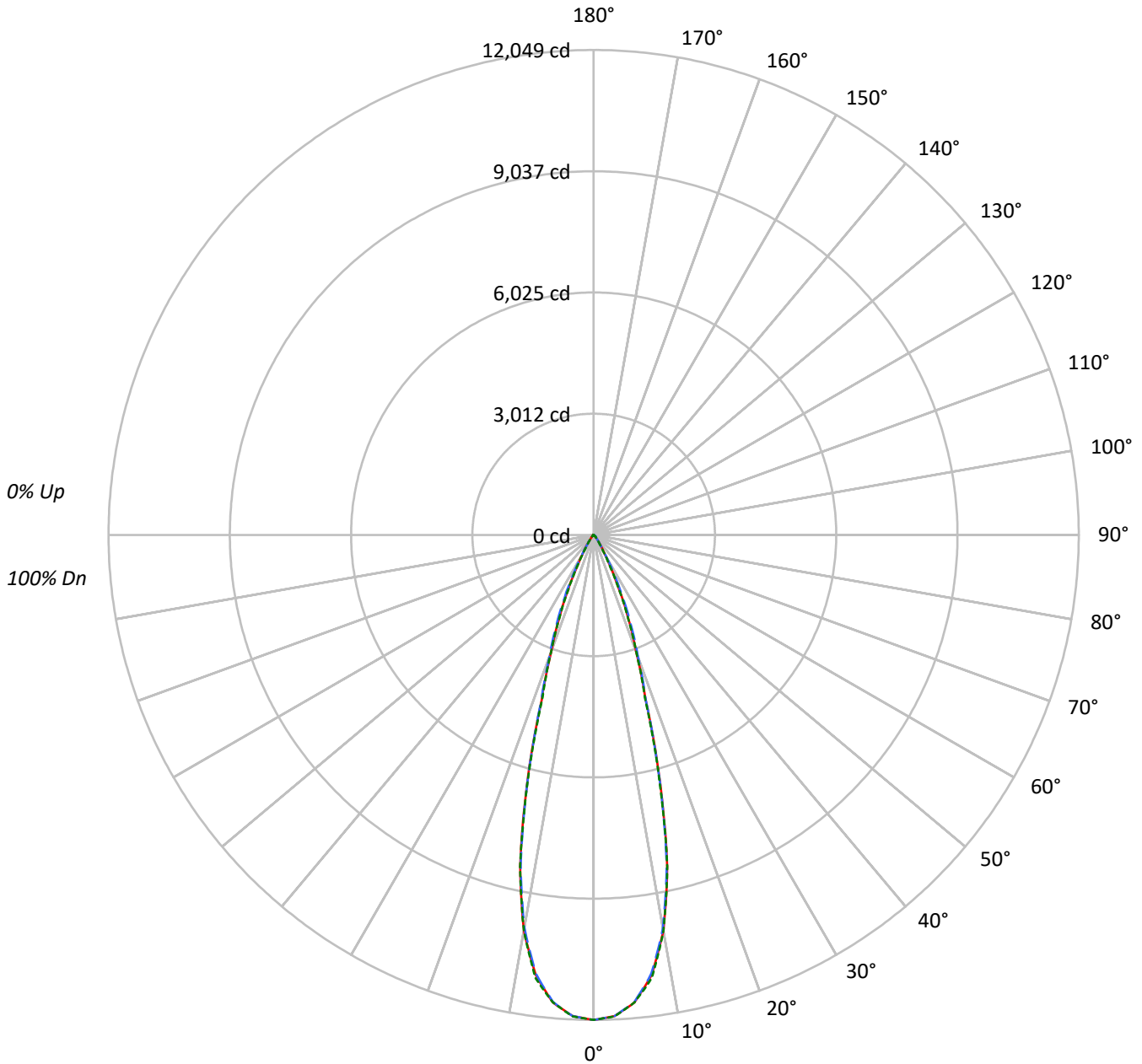
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	922256	922256	922256
5°	895782	894737	895828
10°	775882	770410	775695
15°	506224	503506	500970
20°	251723	261164	251381
25°	126803	142985	124201
30°	50768	55320	44237
35°	23547	22557	18903
40°	10162	11291	9572
45°	7177	8898	7231
50°	2465	6478	2608
55°	1415	2682	1495
60°	995	1179	995
65°	634	634	634
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8898 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1059.5	28.3
10°-20°	1706.3	45.5
20°-30°	737.4	19.7
30°-40°	168.1	4.5
40°-50°	57.7	1.5
50°-60°	14.1	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3503.2	93.5
0°-40°	3671.3	98.0
0°-60°	3743.1	99.9
0°-90°	3747.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3747.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12049	12049	12049	12049	12049	
5°	11658	11647	11645	11669	11659	1060
15°	6388	6311	6354	6333	6322	1711
25°	1501	1558	1693	1518	1471	719
35°	252	257	241	240	202	171
45°	66	82	82	82	67	47
55°	11	11	20	12	11	10
65°	4	4	4	4	4	3
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°	12048.8	12048.8	12048.8	12048.8	12048.8
2.5°	11968.9	11960.7	11965.4	11971.3	11973.7
5°	11658.4	11647.1	11644.8	11669.0	11659.0
7.5°	11031.9	11015.9	10991.7	11046.7	11098.2
10°	9982.5	9964.7	9912.1	9938.1	9980.1
12.5°	8433.2	8375.8	8374.6	8457.5	8446.2
15°	6388.2	6311.3	6353.9	6333.2	6321.9
17.5°	4295.9	4266.3	4323.1	4305.9	4232.0
20°	3090.3	3098.0	3206.2	3151.8	3086.1
22.5°	2255.0	2282.8	2411.2	2271.0	2219.5
25°	1501.4	1558.2	1693.0	1518.5	1470.6
27.5°	923.4	949.4	1086.1	911.6	885.6
30°	574.4	561.4	625.9	537.1	500.5
32.5°	376.8	360.3	381.0	341.9	312.3
35°	252.0	257.3	241.4	239.6	202.3
37.5°	157.4	181.0	159.7	170.4	130.1
40°	101.7	131.3	113.0	124.8	95.8
42.5°	83.4	101.2	92.9	98.8	85.2
45°	66.3	82.2	82.2	82.2	66.8
47.5°	36.7	55.0	70.4	56.2	39.0
50°	20.7	27.8	54.4	29.0	21.9
52.5°	14.2	16.0	37.3	16.6	14.8
55°	10.6	11.2	20.1	11.8	11.2
57.5°	8.3	8.9	10.6	8.9	8.3
60°	6.5	6.5	7.7	7.1	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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