

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: P767201

Luminaire Tested: LD6D50D010-EU6DR3040509040-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767201
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: LD6D50D010-EU6DR3040509040-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

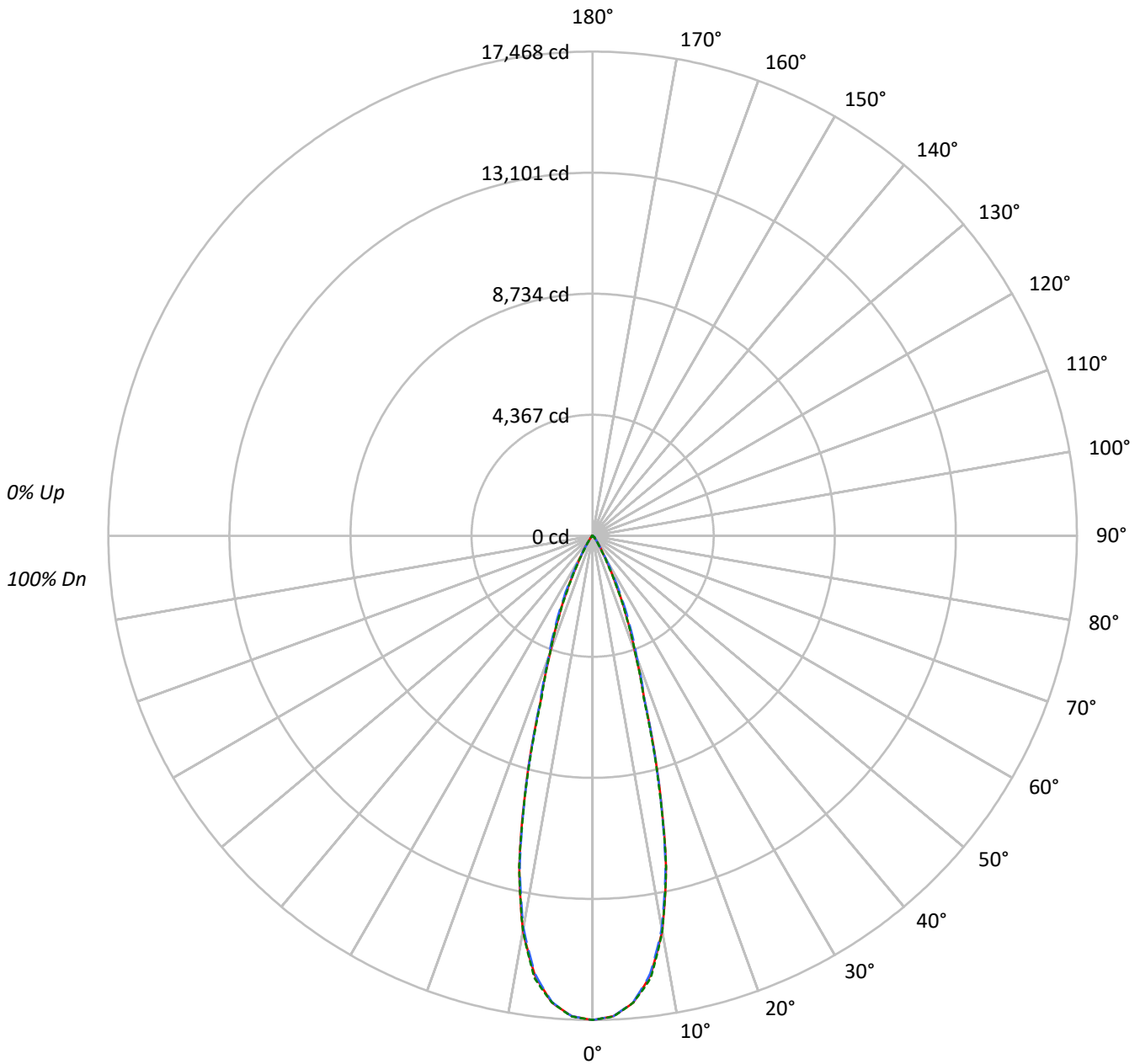
Lumens per Lamp: N/A
Luminaire Lumens: 5432.3 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	1337029	1337029	1337029
5°	1298640	1297126	1298709
10°	1124825	1116889	1124553
15°	733890	729952	726283
20°	364930	378623	364441
25°	183828	207290	180061
30°	73598	80191	64123
35°	34134	32695	27407
40°	14738	16367	13879
45°	10403	12903	10489
50°	3572	9395	3775
55°	2055	3897	2175
60°	1439	1699	1439
65°	924	924	924
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1536.0	28.3
10°-20°	2473.8	45.5
20°-30°	1069.0	19.7
30°-40°	243.6	4.5
40°-50°	83.7	1.5
50°-60°	20.4	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5078.7	93.5
0°-40°	5322.4	98.0
0°-60°	5426.5	99.9
0°-90°	5432.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5432.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17468	17468	17468	17468	17468	
5°	16902	16885	16882	16917	16902	1537
15°	9261	9150	9212	9181	9165	2480
25°	2177	2259	2454	2202	2132	1042
35°	365	373	350	347	293	248
45°	96	119	119	119	97	68
55°	15	16	29	17	16	15
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°	17467.6	17467.6	17467.6	17467.6	17467.6
2.5°	17351.8	17339.8	17346.6	17355.2	17358.6
5°	16901.5	16885.3	16881.8	16917.0	16902.4
7.5°	15993.3	15970.2	15935.0	16014.8	16089.4
10°	14472.0	14446.2	14369.9	14407.6	14468.5
12.5°	12225.9	12142.7	12141.0	12261.1	12244.8
15°	9261.2	9149.7	9211.5	9181.4	9165.2
17.5°	6227.9	6185.0	6267.3	6242.5	6135.3
20°	4480.1	4491.2	4648.2	4569.3	4474.1
22.5°	3269.2	3309.5	3495.6	3292.3	3217.7
25°	2176.6	2258.9	2454.4	2201.5	2132.0
27.5°	1338.7	1376.4	1574.6	1321.6	1283.8
30°	832.7	813.9	907.3	778.7	725.5
32.5°	546.3	522.3	552.3	495.7	452.8
35°	365.3	373.1	349.9	347.3	293.3
37.5°	228.1	262.4	231.6	247.0	188.7
40°	147.5	190.4	163.8	181.0	138.9
42.5°	120.9	146.6	134.6	143.2	123.5
45°	96.1	119.2	119.2	119.2	96.9
47.5°	53.2	79.8	102.1	81.5	56.6
50°	30.0	40.3	78.9	42.0	31.7
52.5°	20.6	23.2	54.0	24.0	21.4
55°	15.4	16.3	29.2	17.2	16.3
57.5°	12.0	12.9	15.4	12.9	12.0
60°	9.4	9.4	11.1	10.3	9.4
62.5°	6.9	6.9	7.7	6.9	6.9
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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