

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: P766421

Luminaire Tested: LD6D45BD010-EU6DR3040509040-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766421
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-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: 4625.6 lumens
Efficiency: N/A
Efficacy: 119.5 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

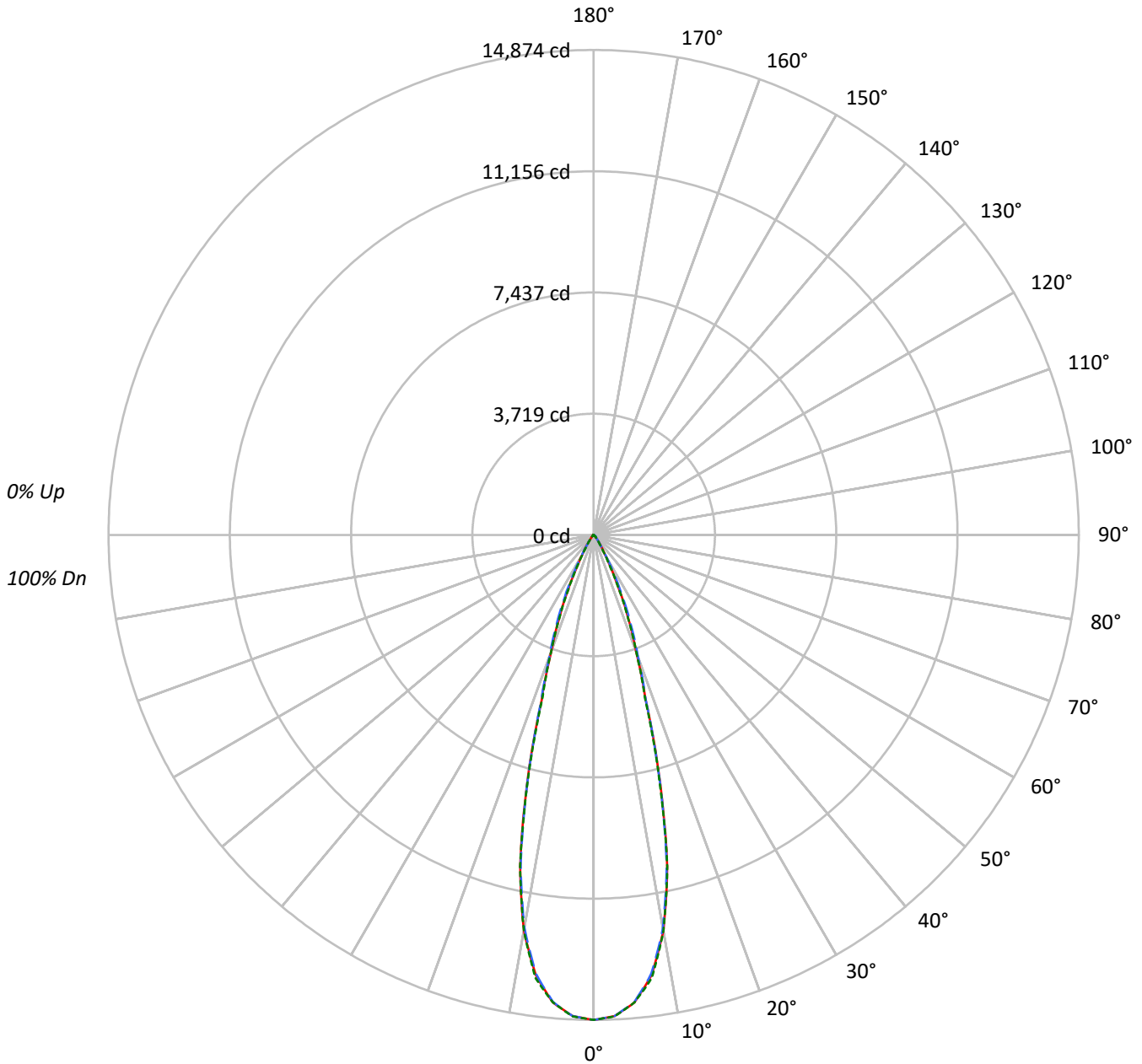
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1138468	1138468	1138468
5°	1105790	1104499	1105844
10°	957780	951026	957554
15°	624907	621547	618425
20°	310738	322394	310322
25°	156523	176505	153322
30°	62674	68286	54604
35°	29070	27836	23333
40°	12550	13939	11821
45°	8855	10987	8931
50°	3048	8002	3215
55°	1748	3310	1855
60°	1225	1454	1225
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10987 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1307.9	28.3
10°-20°	2106.4	45.5
20°-30°	910.2	19.7
30°-40°	207.5	4.5
40°-50°	71.2	1.5
50°-60°	17.4	0.4
60°-70°	4.5	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°	4324.5	93.5
0°-40°	4532.0	98.0
0°-60°	4620.6	99.9
0°-90°	4625.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14874	14874	14874	14874	14874	
5°	14392	14378	14375	14405	14392	1309
15°	7886	7791	7844	7818	7804	2112
25°	1853	1923	2090	1874	1815	887
35°	311	318	298	296	250	211
45°	82	102	102	102	82	58
55°	13	14	25	15	14	13
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14873.5	14873.5	14873.5	14873.5	14873.5
2.5°	14774.9	14764.7	14770.5	14777.8	14780.8
5°	14391.6	14377.7	14374.8	14404.7	14392.3
7.5°	13618.2	13598.5	13568.6	13636.5	13700.0
10°	12322.8	12300.9	12235.9	12268.0	12319.9
12.5°	10410.3	10339.5	10338.0	10440.2	10426.4
15°	7885.9	7790.9	7843.5	7817.9	7804.1
17.5°	5303.0	5266.5	5336.6	5315.4	5224.1
20°	3814.8	3824.3	3957.9	3890.7	3809.7
22.5°	2783.7	2818.0	2976.5	2803.4	2739.9
25°	1853.3	1923.4	2089.9	1874.5	1815.4
27.5°	1139.9	1172.0	1340.7	1125.3	1093.2
30°	709.1	693.0	772.6	663.1	617.8
32.5°	465.2	444.7	470.3	422.1	385.6
35°	311.1	317.7	297.9	295.7	249.7
37.5°	194.2	223.5	197.2	210.3	160.7
40°	125.6	162.1	139.5	154.1	118.3
42.5°	103.0	124.9	114.6	121.9	105.2
45°	81.8	101.5	101.5	101.5	82.5
47.5°	45.3	67.9	86.9	69.4	48.2
50°	25.6	34.3	67.2	35.8	27.0
52.5°	17.5	19.7	46.0	20.4	18.3
55°	13.1	13.9	24.8	14.6	13.9
57.5°	10.2	11.0	13.1	11.0	10.2
60°	8.0	8.0	9.5	8.8	8.0
62.5°	5.8	5.8	6.6	5.8	5.8
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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

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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