

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: P766436

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766436
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-EU6DR3040509050-6LBCSSQMW
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4659.3 lumens
Efficiency: N/A
Efficacy: 120.4 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

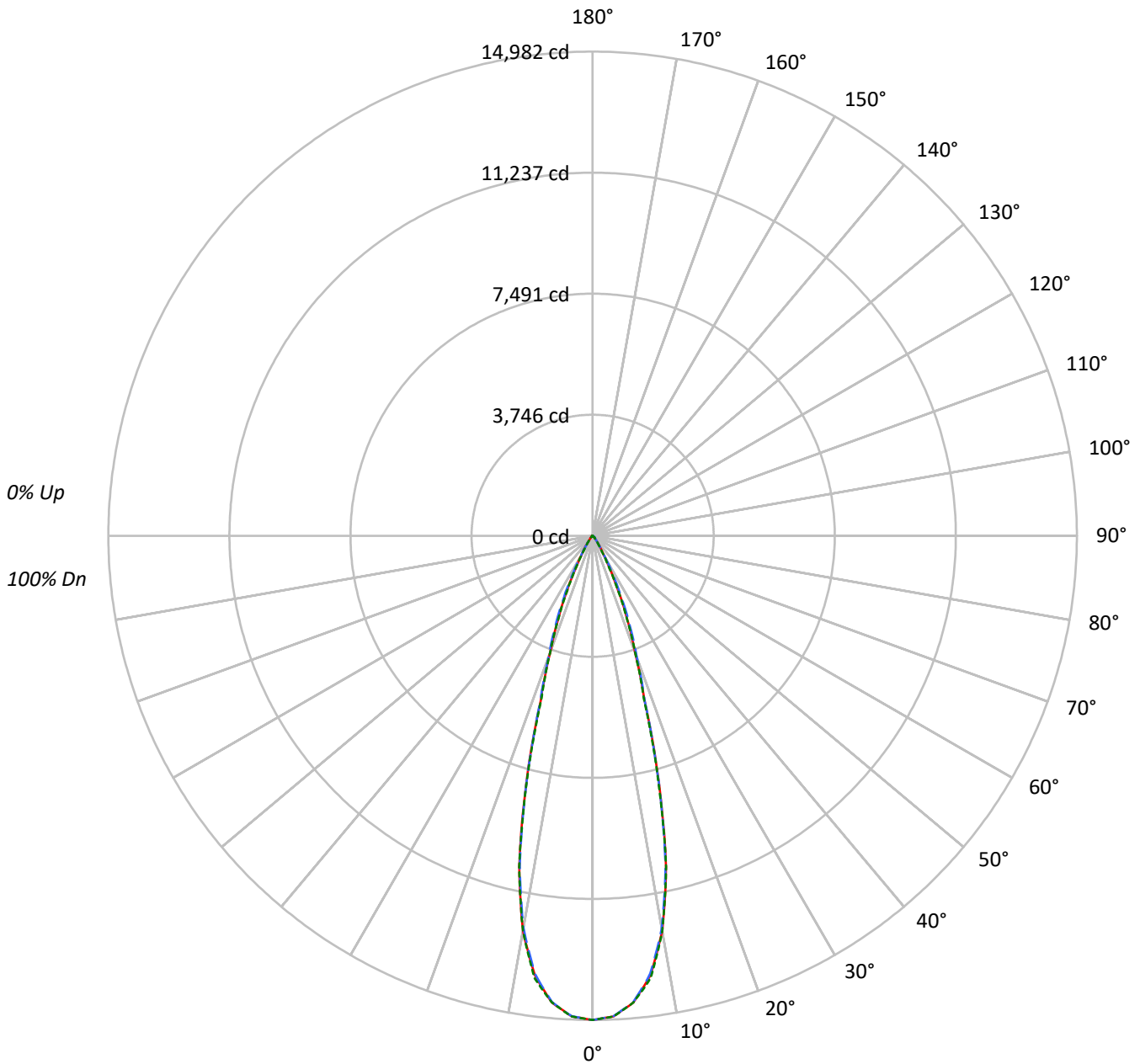
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					70					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	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°	1146781	1146781	1146781
5°	1113858	1112559	1113919
10°	964775	957966	964542
15°	629463	626087	622934
20°	313002	324748	312587
25°	157671	177797	154437
30°	63124	68781	55002
35°	29285	28042	23510
40°	12640	14039	11911
45°	8920	11063	8995
50°	3060	8062	3239
55°	1762	3336	1868
60°	1240	1470	1240
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: 11063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1317.4	28.3
10°-20°	2121.8	45.5
20°-30°	916.9	19.7
30°-40°	209.0	4.5
40°-50°	71.7	1.5
50°-60°	17.5	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°	4356.1	93.5
0°-40°	4565.1	98.0
0°-60°	4654.3	99.9
0°-90°	4659.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4659.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14982	14982	14982	14982	14982	
5°	14497	14483	14480	14510	14497	1319
15°	7943	7848	7901	7875	7861	2127
25°	1867	1938	2105	1888	1829	894
35°	313	320	300	298	252	213
45°	82	102	102	102	83	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°	14982.1	14982.1	14982.1	14982.1	14982.1
2.5°	14882.8	14872.5	14878.4	14885.7	14888.7
5°	14496.6	14482.7	14479.7	14509.9	14497.4
7.5°	13717.7	13697.8	13667.6	13736.1	13800.0
10°	12412.8	12390.7	12325.2	12357.6	12409.8
12.5°	10486.3	10414.9	10413.5	10516.5	10502.5
15°	7943.4	7847.8	7900.8	7875.0	7861.0
17.5°	5341.7	5304.9	5375.6	5354.2	5262.3
20°	3842.6	3852.2	3986.8	3919.1	3837.5
22.5°	2804.0	2838.6	2998.2	2823.9	2759.9
25°	1866.9	1937.5	2105.2	1888.2	1828.6
27.5°	1148.2	1180.6	1350.5	1133.5	1101.1
30°	714.2	698.1	778.2	667.9	622.3
32.5°	468.6	448.0	473.7	425.2	388.4
35°	313.4	320.0	300.1	297.9	251.6
37.5°	195.7	225.1	198.6	211.8	161.8
40°	126.5	163.3	140.5	155.2	119.2
42.5°	103.7	125.8	115.5	122.8	105.9
45°	82.4	102.2	102.2	102.2	83.1
47.5°	45.6	68.4	87.5	69.9	48.5
50°	25.7	34.6	67.7	36.0	27.2
52.5°	17.7	19.9	46.3	20.6	18.4
55°	13.2	14.0	25.0	14.7	14.0
57.5°	10.3	11.0	13.2	11.0	10.3
60°	8.1	8.1	9.6	8.8	8.1
62.5°	5.9	5.9	6.6	5.9	5.9
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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