

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: P766382

Luminaire Tested: LD6D45BD010-EU6DR3040509027-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766382
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-EU6DR3040509027-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4244.7 lumens
Efficiency: N/A
Efficacy: 109.7 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

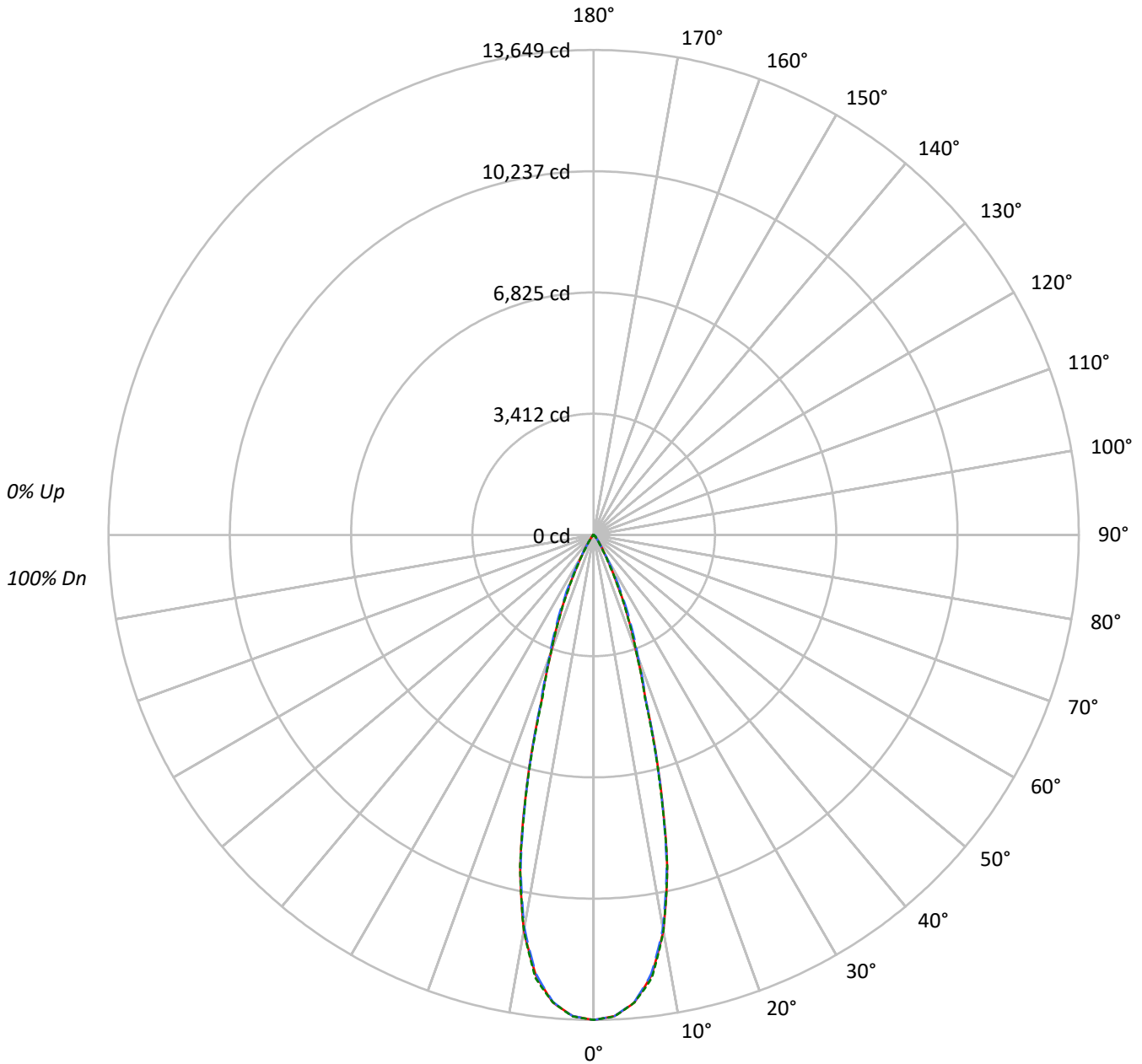
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1044710	1044710	1044710
5°	1014724	1013541	1014770
10°	878905	872703	878695
15°	573438	570363	567495
20°	285144	295847	284761
25°	143635	161970	140696
30°	57512	62665	50105
35°	26678	25547	21417
40°	11521	12790	10851
45°	8129	10078	8194
50°	2798	7335	2953
55°	1615	3043	1695
60°	1133	1332	1133
65°	724	724	724
70°	448	291	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: 10078 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1200.2	28.3
10°-20°	1932.9	45.5
20°-30°	835.3	19.7
30°-40°	190.4	4.5
40°-50°	65.4	1.5
50°-60°	16.0	0.4
60°-70°	4.1	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°	3968.4	93.5
0°-40°	4158.7	98.0
0°-60°	4240.1	99.9
0°-90°	4244.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4244.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13649	13649	13649	13649	13649	
5°	13206	13194	13191	13218	13207	1201
15°	7236	7149	7198	7174	7161	1938
25°	1701	1765	1918	1720	1666	814
35°	286	292	273	271	229	194
45°	75	93	93	93	76	53
55°	12	13	23	13	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13648.6	13648.6	13648.6	13648.6	13648.6
2.5°	13558.2	13548.8	13554.1	13560.8	13563.5
5°	13206.4	13193.6	13191.0	13218.4	13207.0
7.5°	12496.7	12478.6	12451.2	12513.5	12571.8
10°	11308.0	11287.9	11228.2	11257.7	11305.3
12.5°	9553.0	9488.0	9486.6	9580.4	9567.7
15°	7236.4	7149.3	7197.6	7174.1	7161.4
17.5°	4866.3	4832.8	4897.1	4877.7	4793.9
20°	3500.6	3509.3	3632.0	3570.3	3495.9
22.5°	2554.4	2585.9	2731.3	2572.5	2514.2
25°	1700.7	1765.0	1917.8	1720.2	1665.9
27.5°	1046.0	1075.5	1230.3	1032.6	1003.1
30°	650.7	635.9	709.0	608.5	566.9
32.5°	426.9	408.1	431.5	387.3	353.8
35°	285.5	291.5	273.4	271.4	229.2
37.5°	178.2	205.1	180.9	193.0	147.4
40°	115.3	148.8	128.0	141.4	108.6
42.5°	94.5	114.6	105.2	111.9	96.5
45°	75.1	93.1	93.1	93.1	75.7
47.5°	41.5	62.3	79.7	63.7	44.2
50°	23.5	31.5	61.6	32.8	24.8
52.5°	16.1	18.1	42.2	18.8	16.8
55°	12.1	12.7	22.8	13.4	12.7
57.5°	9.4	10.1	12.1	10.1	9.4
60°	7.4	7.4	8.7	8.0	7.4
62.5°	5.4	5.4	6.0	5.4	5.4
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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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