

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: P766397

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766397
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-EU6DR3040509030-6LBCSSQMW
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4373.6 lumens
Efficiency: N/A
Efficacy: 113.0 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')

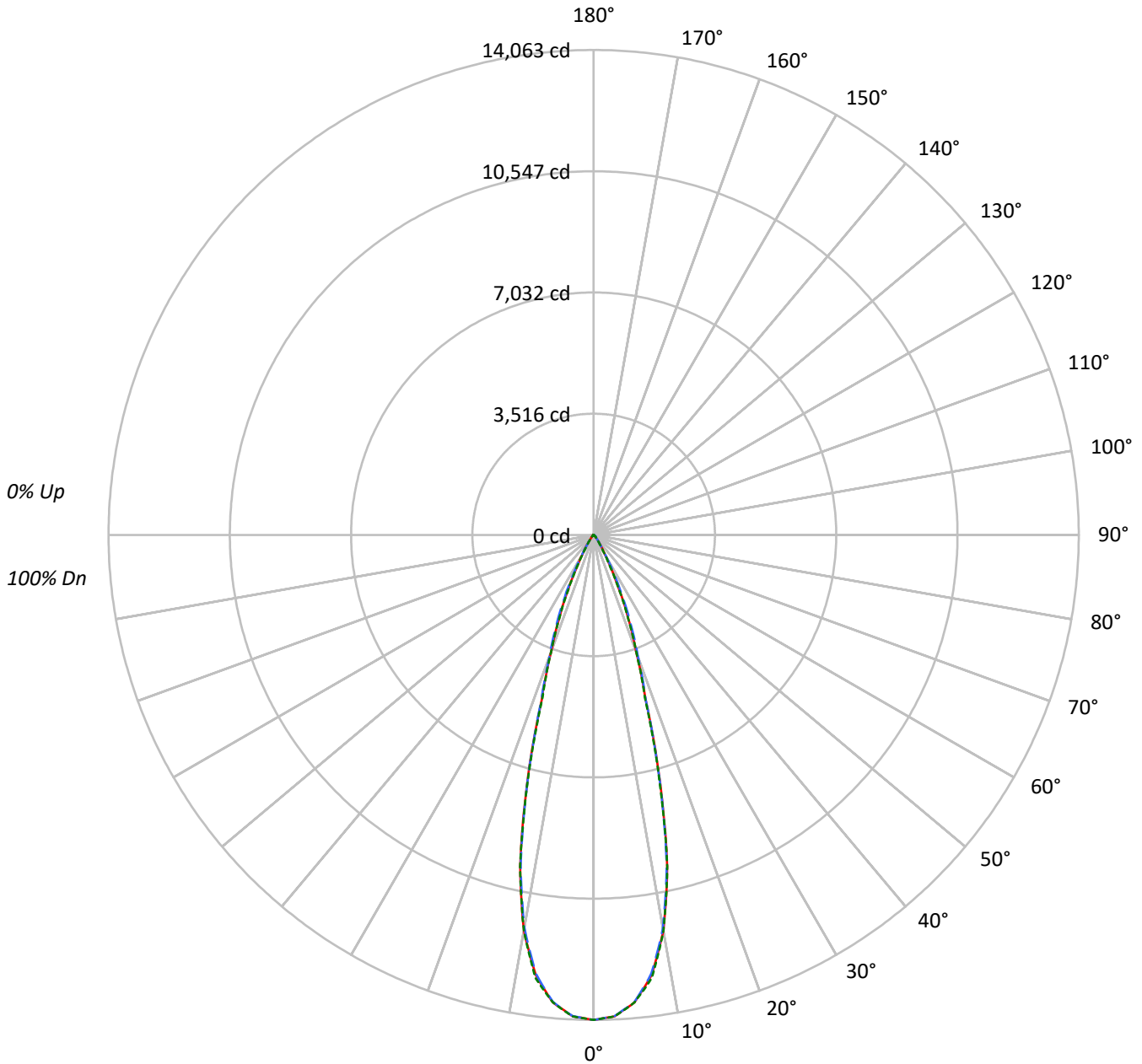
CIE Type: Direct

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°	1076453	1076453	1076453
5°	1045551	1044329	1045604
10°	905604	899222	905394
15°	590864	587686	584738
20°	293811	304832	293412
25°	148001	166894	144969
30°	59253	64565	51626
35°	27481	26323	22062
40°	11871	13179	11181
45°	8368	10392	8443
50°	2882	7562	3037
55°	1655	3136	1748
60°	1163	1378	1163
65°	743	743	743
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10392 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1236.7	28.3
10°-20°	1991.6	45.5
20°-30°	860.6	19.7
30°-40°	196.2	4.5
40°-50°	67.4	1.5
50°-60°	16.5	0.4
60°-70°	4.3	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°	4088.9	93.5
0°-40°	4285.1	98.0
0°-60°	4368.9	99.9
0°-90°	4373.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4373.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14063	14063	14063	14063	14063	
5°	13608	13594	13592	13620	13608	1238
15°	7456	7366	7416	7392	7379	1997
25°	1752	1819	1976	1772	1716	839
35°	294	300	282	280	236	200
45°	77	96	96	96	78	55
55°	12	13	24	14	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14063.3	14063.3	14063.3	14063.3	14063.3
2.5°	13970.1	13960.4	13965.9	13972.9	13975.6
5°	13607.6	13594.5	13591.7	13620.0	13608.3
7.5°	12876.4	12857.8	12829.5	12893.7	12953.7
10°	11651.5	11630.8	11569.4	11599.7	11648.8
12.5°	9843.2	9776.2	9774.9	9871.5	9858.4
15°	7456.3	7366.5	7416.2	7392.1	7379.0
17.5°	5014.1	4979.6	5045.9	5025.9	4939.6
20°	3607.0	3615.9	3742.3	3678.8	3602.1
22.5°	2632.0	2664.5	2814.3	2650.7	2590.6
25°	1752.4	1818.7	1976.1	1772.4	1716.5
27.5°	1077.8	1108.2	1267.7	1064.0	1033.6
30°	670.4	655.2	730.5	626.9	584.1
32.5°	439.8	420.5	444.7	399.1	364.6
35°	294.1	300.4	281.7	279.6	236.1
37.5°	183.7	211.3	186.4	198.9	151.9
40°	118.8	153.3	131.9	145.7	111.9
42.5°	97.4	118.1	108.4	115.3	99.4
45°	77.3	96.0	96.0	96.0	78.0
47.5°	42.8	64.2	82.2	65.6	45.6
50°	24.2	32.5	63.5	33.8	25.5
52.5°	16.6	18.6	43.5	19.3	17.3
55°	12.4	13.1	23.5	13.8	13.1
57.5°	9.7	10.4	12.4	10.4	9.7
60°	7.6	7.6	9.0	8.3	7.6
62.5°	5.5	5.5	6.2	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	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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