

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: P767149

Luminaire Tested: LD6D50D010-EU6DR3040509024-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767149
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-EU6DR3040509024-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

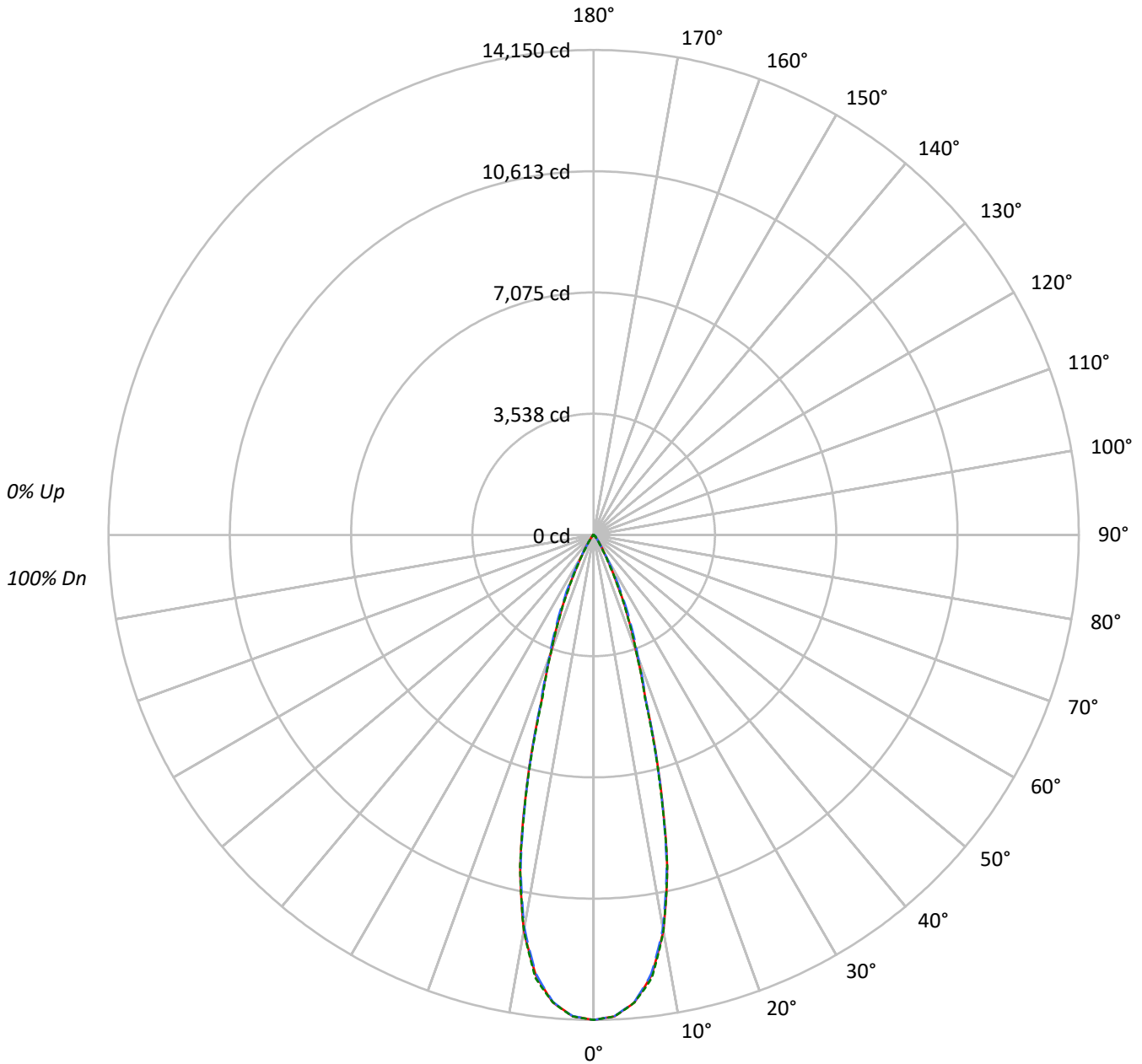
Lumens per Lamp: N/A
Luminaire Lumens: 4400.7 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1083104	1083104	1083104
5°	1052012	1050783	1052066
10°	911200	904772	910982
15°	594517	591323	588344
20°	295627	306714	295228
25°	148913	167924	145864
30°	59624	64963	51944
35°	27659	26482	22202
40°	11940	13259	11241
45°	8422	10457	8498
50°	2894	7609	3060
55°	1668	3149	1762
60°	1163	1378	1163
65°	761	761	761
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: 10457 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1244.3	28.3
10°-20°	2003.9	45.5
20°-30°	866.0	19.7
30°-40°	197.4	4.5
40°-50°	67.8	1.5
50°-60°	16.6	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°	4114.2	93.5
0°-40°	4311.6	98.0
0°-60°	4395.9	99.9
0°-90°	4400.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14150	14150	14150	14150	14150	
5°	13692	13678	13676	13704	13692	1245
15°	7502	7412	7462	7438	7424	2009
25°	1763	1830	1988	1783	1727	844
35°	296	302	283	281	238	201
45°	78	97	97	97	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14150.2	14150.2	14150.2	14150.2	14150.2
2.5°	14056.4	14046.7	14052.2	14059.2	14062.0
5°	13691.7	13678.5	13675.7	13704.2	13692.4
7.5°	12956.0	12937.2	12908.7	12973.3	13033.8
10°	11723.5	11702.7	11640.8	11671.4	11720.7
12.5°	9904.0	9836.6	9835.2	9932.5	9919.3
15°	7502.4	7412.0	7462.1	7437.7	7424.5
17.5°	5045.1	5010.4	5077.1	5056.9	4970.1
20°	3629.3	3638.3	3765.4	3701.5	3624.4
22.5°	2648.3	2680.9	2831.7	2667.1	2606.6
25°	1763.2	1829.9	1988.3	1783.4	1727.1
27.5°	1084.5	1115.0	1275.5	1070.6	1040.0
30°	674.6	659.3	735.0	630.8	587.7
32.5°	442.5	423.1	447.4	401.6	366.8
35°	296.0	302.2	283.4	281.4	237.6
37.5°	184.8	212.6	187.6	200.1	152.8
40°	119.5	154.2	132.7	146.6	112.5
42.5°	98.0	118.8	109.1	116.0	100.0
45°	77.8	96.6	96.6	96.6	78.5
47.5°	43.1	64.6	82.7	66.0	45.9
50°	24.3	32.7	63.9	34.0	25.7
52.5°	16.7	18.8	43.8	19.5	17.4
55°	12.5	13.2	23.6	13.9	13.2
57.5°	9.7	10.4	12.5	10.4	9.7
60°	7.6	7.6	9.0	8.3	7.6
62.5°	5.6	5.6	6.3	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
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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