

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P767203

Luminaire Tested: LD6D50D010-EU6DR3040509040-6LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767203
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-EU6DR3040509040-6LBCSSQMW
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

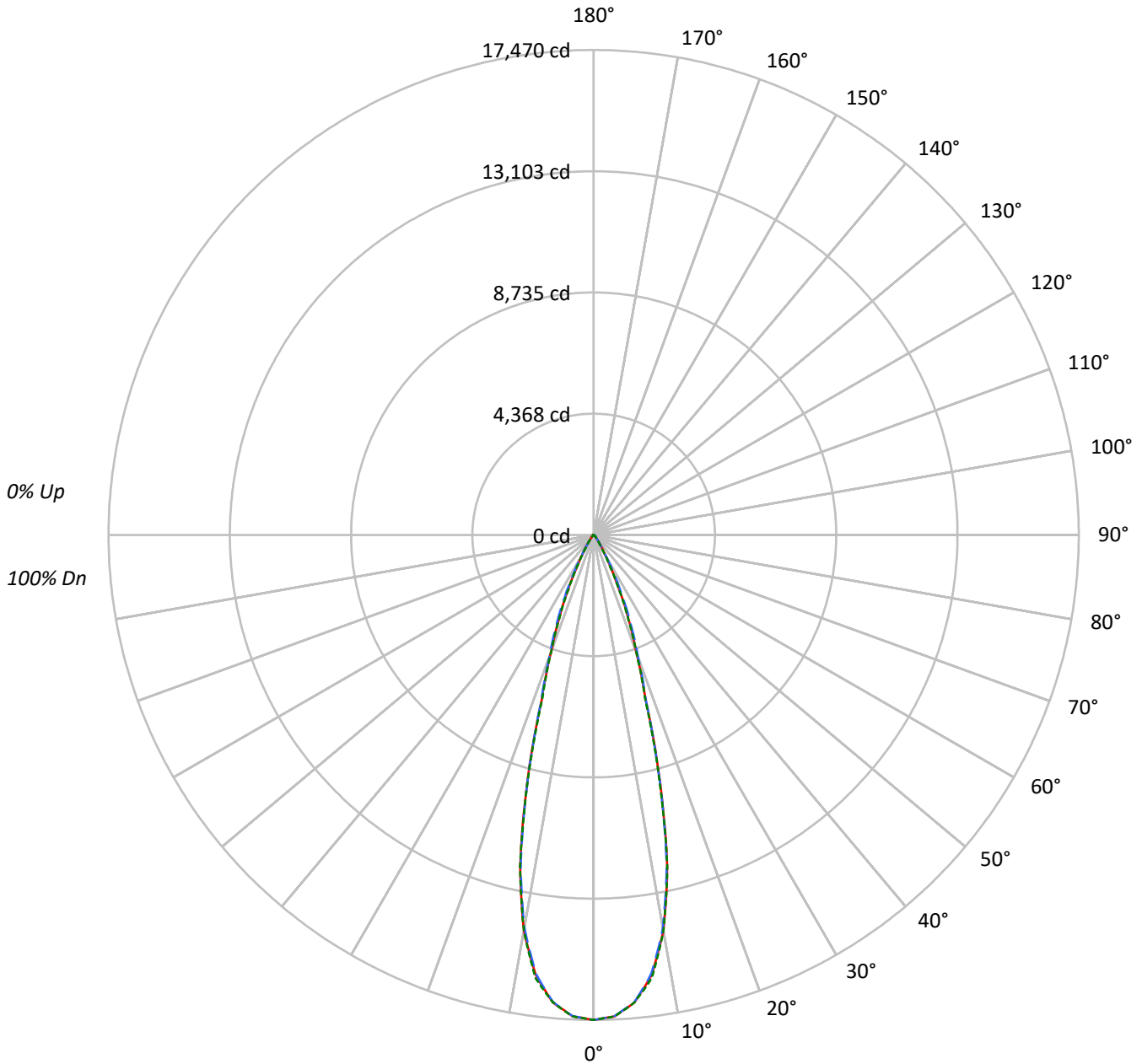
Lumens per Lamp: N/A
Luminaire Lumens: 5433.2 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	1337236	1337236	1337236
5°	1298847	1297334	1298917
10°	1124996	1117068	1124731
15°	734009	730063	726394
20°	364987	378680	364498
25°	183853	207323	180086
30°	73616	80209	64132
35°	34144	32705	27407
40°	14738	16367	13889
45°	10403	12903	10489
50°	3572	9395	3775
55°	2055	3897	2175
60°	1439	1715	1439
65°	924	924	924
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1536.2	28.3
10°-20°	2474.1	45.5
20°-30°	1069.1	19.7
30°-40°	243.7	4.5
40°-50°	83.7	1.5
50°-60°	20.4	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5079.5	93.5
0°-40°	5323.2	98.0
0°-60°	5427.3	99.9
0°-90°	5433.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5433.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17470	17470	17470	17470	17470	
5°	16904	16888	16884	16920	16905	1538
15°	9263	9151	9213	9183	9167	2480
25°	2177	2259	2455	2202	2132	1042
35°	365	373	350	347	293	248
45°	96	119	119	119	97	68
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17470.3	17470.3	17470.3	17470.3	17470.3
2.5°	17354.5	17342.5	17349.4	17357.9	17361.4
5°	16904.2	16887.9	16884.5	16919.6	16905.1
7.5°	15995.9	15972.7	15937.5	16017.3	16091.9
10°	14474.2	14448.5	14372.2	14409.9	14470.8
12.5°	12227.8	12144.6	12142.9	12263.0	12246.7
15°	9262.7	9151.2	9212.9	9182.9	9166.6
17.5°	6228.9	6186.0	6268.3	6243.4	6136.2
20°	4480.8	4491.9	4648.9	4570.0	4474.8
22.5°	3269.7	3310.0	3496.1	3292.8	3218.2
25°	2176.9	2259.3	2454.8	2201.8	2132.3
27.5°	1338.9	1376.7	1574.8	1321.8	1284.0
30°	832.9	814.0	907.5	778.8	725.6
32.5°	546.4	522.4	552.4	495.8	452.9
35°	365.4	373.1	350.0	347.4	293.3
37.5°	228.2	262.5	231.6	247.0	188.7
40°	147.5	190.4	163.8	181.0	139.0
42.5°	120.9	146.7	134.7	143.2	123.5
45°	96.1	119.2	119.2	119.2	96.9
47.5°	53.2	79.8	102.1	81.5	56.6
50°	30.0	40.3	78.9	42.0	31.7
52.5°	20.6	23.2	54.0	24.0	21.4
55°	15.4	16.3	29.2	17.2	16.3
57.5°	12.0	12.9	15.4	12.9	12.0
60°	9.4	9.4	11.2	10.3	9.4
62.5°	6.9	6.9	7.7	6.9	6.9
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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