

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: P767175

Luminaire Tested: LD6D50D010-EU6DR3040509030-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767175
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-EU6DR3040509030-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

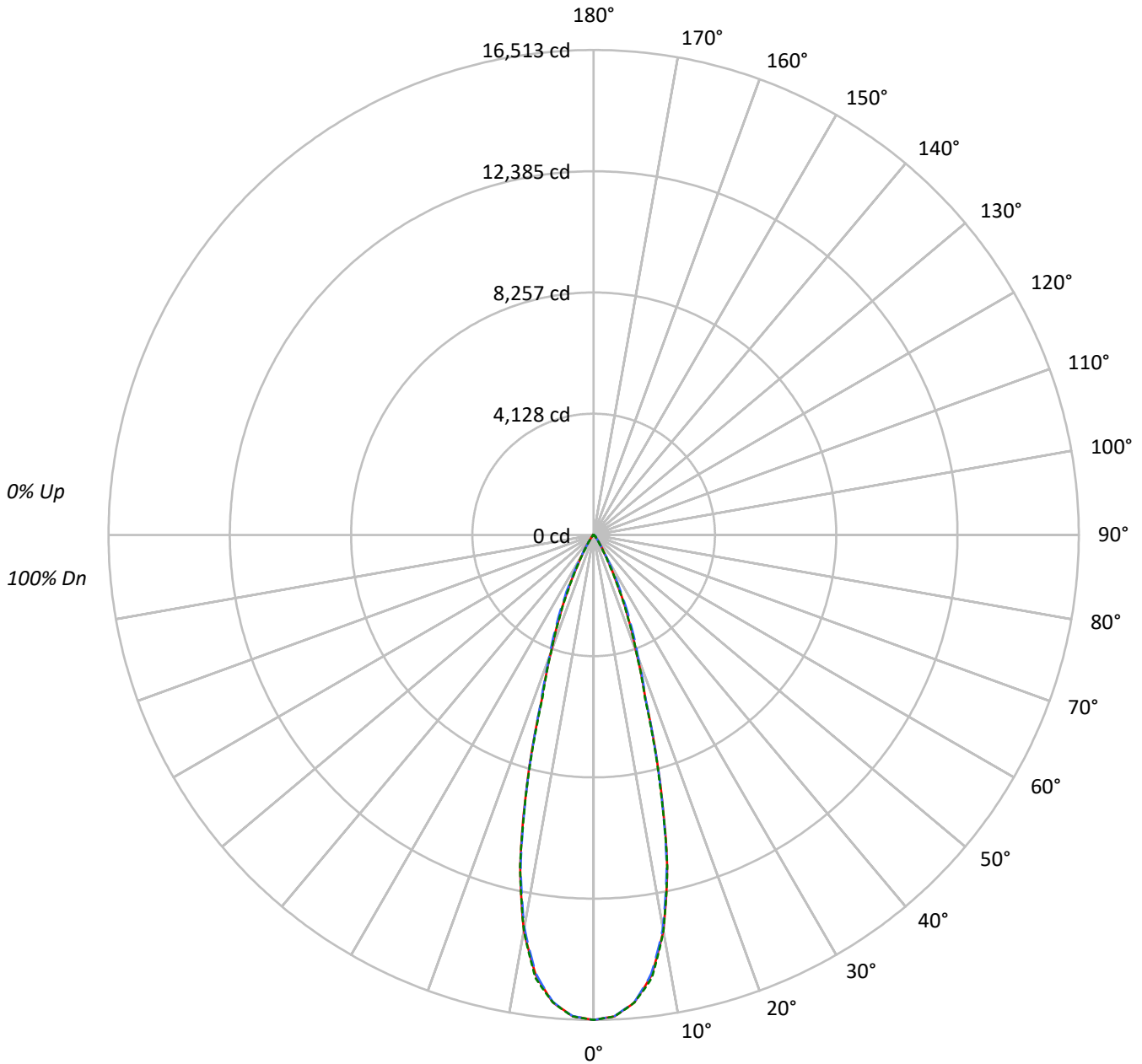
Lumens per Lamp: N/A
Luminaire Lumens: 5135.6 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	1263992	1263992	1263992
5°	1227713	1226276	1227774
10°	1063384	1055883	1063127
15°	693801	690077	686606
20°	344998	357941	344534
25°	173786	195972	170222
30°	69576	75816	60623
35°	32275	30911	25912
40°	13929	15478	13120
45°	9829	12200	9916
50°	3382	8883	3572
55°	1948	3683	2055
60°	1362	1607	1362
65°	887	887	887
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12200 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1452.1	28.3
10°-20°	2338.6	45.5
20°-30°	1010.6	19.7
30°-40°	230.3	4.5
40°-50°	79.1	1.5
50°-60°	19.3	0.4
60°-70°	5.0	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°	4801.3	93.5
0°-40°	5031.7	98.0
0°-60°	5130.1	99.9
0°-90°	5135.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5135.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16513	16513	16513	16513	16513	
5°	15978	15963	15960	15993	15979	1453
15°	8755	8650	8708	8680	8664	2344
25°	2058	2136	2320	2081	2016	985
35°	345	353	331	328	277	234
45°	91	113	113	113	92	64
55°	15	15	28	16	15	14
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°	16513.4	16513.4	16513.4	16513.4	16513.4
2.5°	16404.0	16392.6	16399.1	16407.2	16410.5
5°	15978.4	15962.9	15959.7	15992.9	15979.2
7.5°	15119.8	15097.9	15064.6	15140.0	15210.6
10°	13681.5	13657.2	13585.0	13620.7	13678.2
12.5°	11558.1	11479.5	11477.9	11591.4	11576.0
15°	8755.3	8649.9	8708.3	8679.9	8664.5
17.5°	5887.7	5847.2	5925.0	5901.5	5800.1
20°	4235.4	4245.9	4394.3	4319.7	4229.7
22.5°	3090.6	3128.7	3304.6	3112.5	3042.0
25°	2057.7	2135.5	2320.4	2081.2	2015.5
27.5°	1265.6	1301.3	1488.5	1249.4	1213.7
30°	787.2	769.4	857.8	736.2	685.9
32.5°	516.5	493.7	522.1	468.6	428.1
35°	345.4	352.7	330.8	328.4	277.3
37.5°	215.7	248.1	218.9	233.5	178.4
40°	139.4	180.0	154.9	171.1	131.3
42.5°	114.3	138.6	127.3	135.4	116.7
45°	90.8	112.7	112.7	112.7	91.6
47.5°	50.3	75.4	96.5	77.0	53.5
50°	28.4	38.1	74.6	39.7	30.0
52.5°	19.5	21.9	51.1	22.7	20.3
55°	14.6	15.4	27.6	16.2	15.4
57.5°	11.4	12.2	14.6	12.2	11.4
60°	8.9	8.9	10.5	9.7	8.9
62.5°	6.5	6.5	7.3	6.5	6.5
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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