

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: P767212

Luminaire Tested: LD6D50D010-EU6DR3040509040-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767212
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-EU6DR3040509040-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517.4 lumens
Efficiency: N/A
Efficacy: 96.1 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

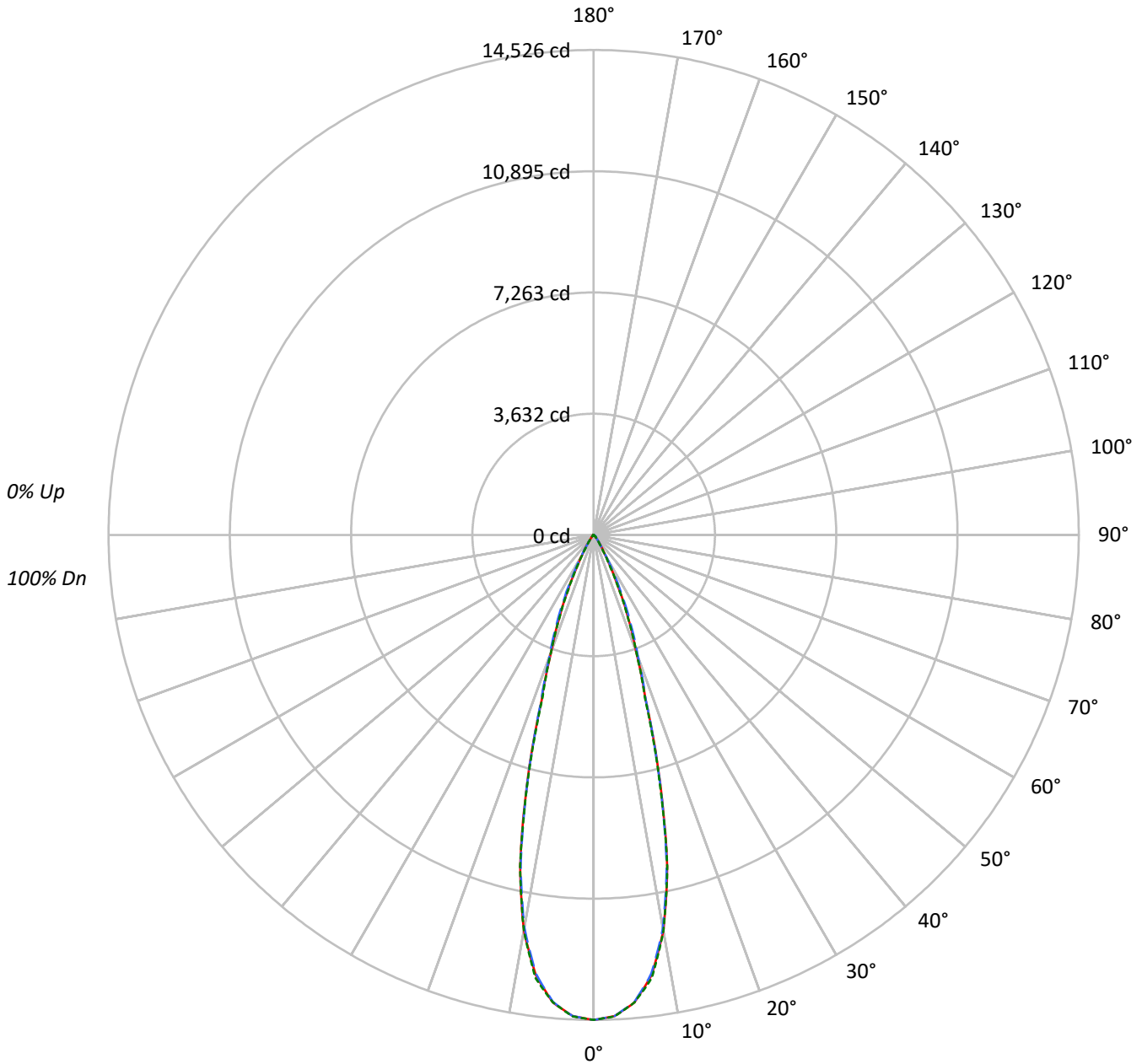
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1111839	1111839	1111839
5°	1079919	1078659	1079973
10°	935372	928781	935154
15°	610286	607006	603955
20°	303464	314851	303056
25°	152866	172384	149733
30°	61206	66686	53322
35°	28388	27192	22791
40°	12260	13609	11541
45°	8649	10727	8725
50°	2977	7812	3144
55°	1708	3229	1802
60°	1194	1424	1194
65°	779	779	779
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: 10727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1277.3	28.3
10°-20°	2057.1	45.5
20°-30°	888.9	19.7
30°-40°	202.6	4.5
40°-50°	69.6	1.5
50°-60°	17.0	0.4
60°-70°	4.4	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°	4223.4	93.5
0°-40°	4426.0	98.0
0°-60°	4512.5	99.9
0°-90°	4517.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4517.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14526	14526	14526	14526	14526	
5°	14055	14041	14038	14068	14056	1278
15°	7701	7609	7660	7635	7622	2062
25°	1810	1878	2041	1831	1773	866
35°	304	310	291	289	244	206
45°	80	99	99	99	81	57
55°	13	14	24	14	14	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°	14525.6	14525.6	14525.6	14525.6	14525.6
2.5°	14429.3	14419.3	14425.0	14432.2	14435.0
5°	14054.9	14041.4	14038.5	14067.7	14055.6
7.5°	13299.7	13280.4	13251.2	13317.5	13379.6
10°	12034.5	12013.1	11949.7	11981.1	12031.7
12.5°	10166.8	10097.6	10096.2	10196.0	10182.5
15°	7701.4	7608.7	7660.0	7635.1	7621.5
17.5°	5179.0	5143.3	5211.8	5191.1	5101.9
20°	3725.5	3734.8	3865.3	3799.7	3720.5
22.5°	2718.6	2752.1	2906.8	2737.8	2675.8
25°	1810.0	1878.5	2041.1	1830.7	1772.9
27.5°	1113.2	1144.6	1309.4	1099.0	1067.6
30°	692.5	676.8	754.5	647.5	603.3
32.5°	454.3	434.3	459.3	412.2	376.5
35°	303.8	310.2	291.0	288.8	243.9
37.5°	189.7	218.2	192.6	205.4	156.9
40°	122.7	158.3	136.2	150.5	115.5
42.5°	100.6	121.9	112.0	119.1	102.7
45°	79.9	99.1	99.1	99.1	80.6
47.5°	44.2	66.3	84.9	67.7	47.1
50°	25.0	33.5	65.6	34.9	26.4
52.5°	17.1	19.3	44.9	20.0	17.8
55°	12.8	13.5	24.2	14.3	13.5
57.5°	10.0	10.7	12.8	10.7	10.0
60°	7.8	7.8	9.3	8.6	7.8
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.1	2.9	2.9	2.9	2.9
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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