

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: P767160

Luminaire Tested: LD6D50D010-EU6DR3040509024-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767160
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-EU6DR3040509024-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3659.5 lumens
Efficiency: N/A
Efficacy: 77.9 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

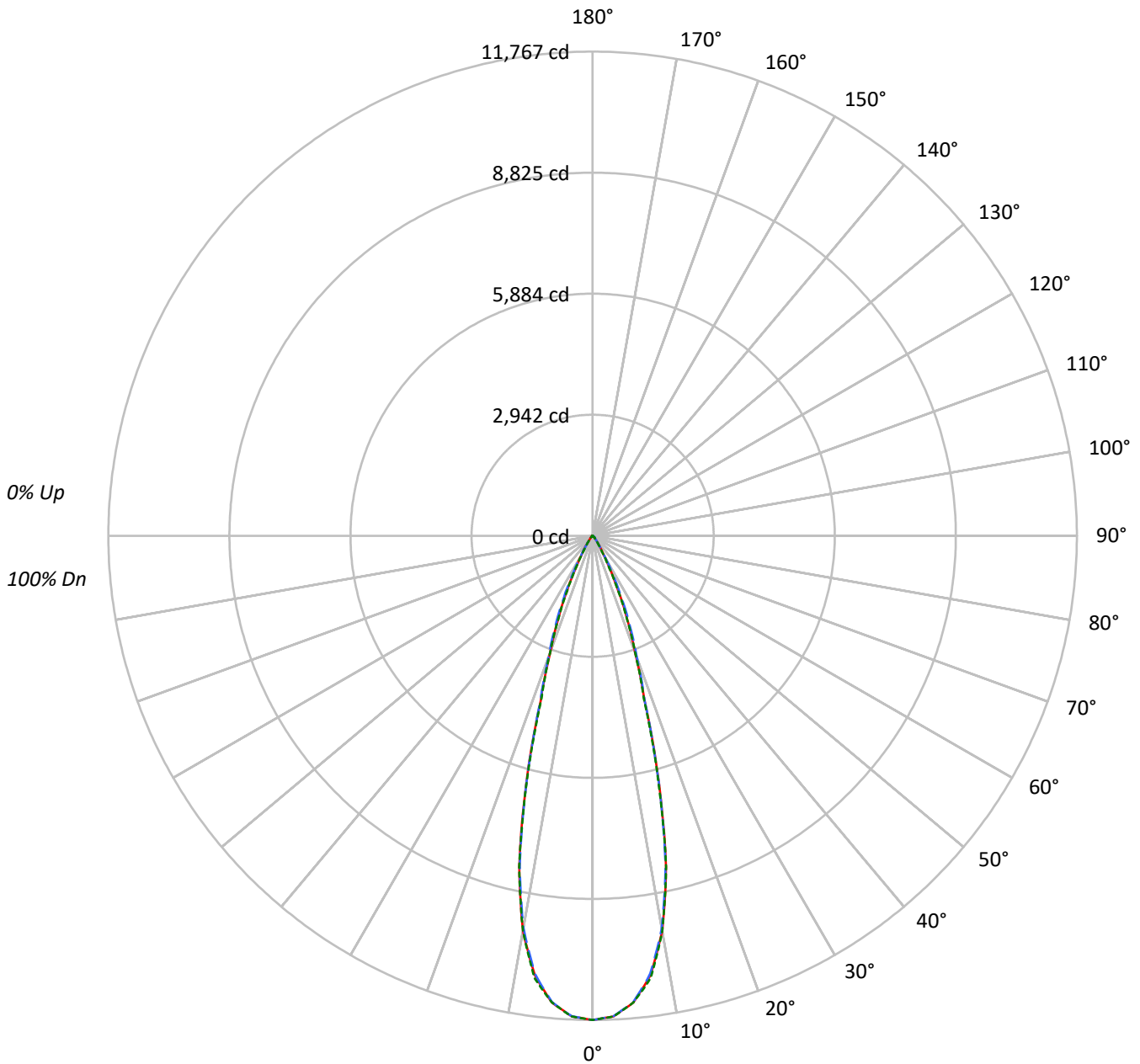
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	900686	900686	900686
5°	874829	873807	874868
10°	757733	752386	757554
15°	494385	491730	489258
20°	245834	255054	245508
25°	123830	139640	121296
30°	49584	54021	43194
35°	22996	22024	18464
40°	9932	11021	9353
45°	7004	8692	7069
50°	2405	6335	2548
55°	1388	2616	1468
60°	980	1148	980
65°	634	634	634
70°	380	269	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8692 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.7	28.3
10°-20°	1666.4	45.5
20°-30°	720.1	19.7
30°-40°	164.1	4.5
40°-50°	56.4	1.5
50°-60°	13.8	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3421.3	93.5
0°-40°	3585.4	98.0
0°-60°	3655.5	99.9
0°-90°	3659.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3659.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11767	11767	11767	11767	11767	
5°	11386	11375	11372	11396	11386	1036
15°	6239	6164	6205	6185	6174	1671
25°	1466	1522	1653	1483	1436	702
35°	246	251	236	234	198	167
45°	65	80	80	80	65	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
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°	11767.0	11767.0	11767.0	11767.0	11767.0
2.5°	11689.0	11680.9	11685.5	11691.3	11693.6
5°	11385.7	11374.7	11372.4	11396.1	11386.2
7.5°	10773.9	10758.3	10734.6	10788.3	10838.6
10°	9749.0	9731.7	9680.2	9705.7	9746.7
12.5°	8235.9	8179.9	8178.7	8259.6	8248.7
15°	6238.8	6163.7	6205.3	6185.0	6174.1
17.5°	4195.4	4166.5	4222.0	4205.2	4133.0
20°	3018.0	3025.5	3131.2	3078.1	3014.0
22.5°	2202.3	2229.4	2354.8	2217.9	2167.6
25°	1466.2	1521.7	1653.4	1483.0	1436.2
27.5°	901.8	927.2	1060.7	890.3	864.8
30°	561.0	548.3	611.2	524.6	488.7
32.5°	368.0	351.8	372.1	333.9	305.0
35°	246.1	251.3	235.7	234.0	197.6
37.5°	153.7	176.8	156.0	166.4	127.1
40°	99.4	128.3	110.3	121.9	93.6
42.5°	81.5	98.8	90.7	96.5	83.2
45°	64.7	80.3	80.3	80.3	65.3
47.5°	35.8	53.7	68.7	54.9	38.1
50°	20.2	27.2	53.2	28.3	21.4
52.5°	13.9	15.6	36.4	16.2	14.4
55°	10.4	11.0	19.6	11.6	11.0
57.5°	8.1	8.7	10.4	8.7	8.1
60°	6.4	6.4	7.5	6.9	6.4
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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