

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: P793282

Luminaire Tested: LER6D50D010-EC6DR3040509040-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793282
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: LER6D50D010-EC6DR3040509040-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 5306.6 lumens
Efficiency: N/A
Efficacy: 112.9 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

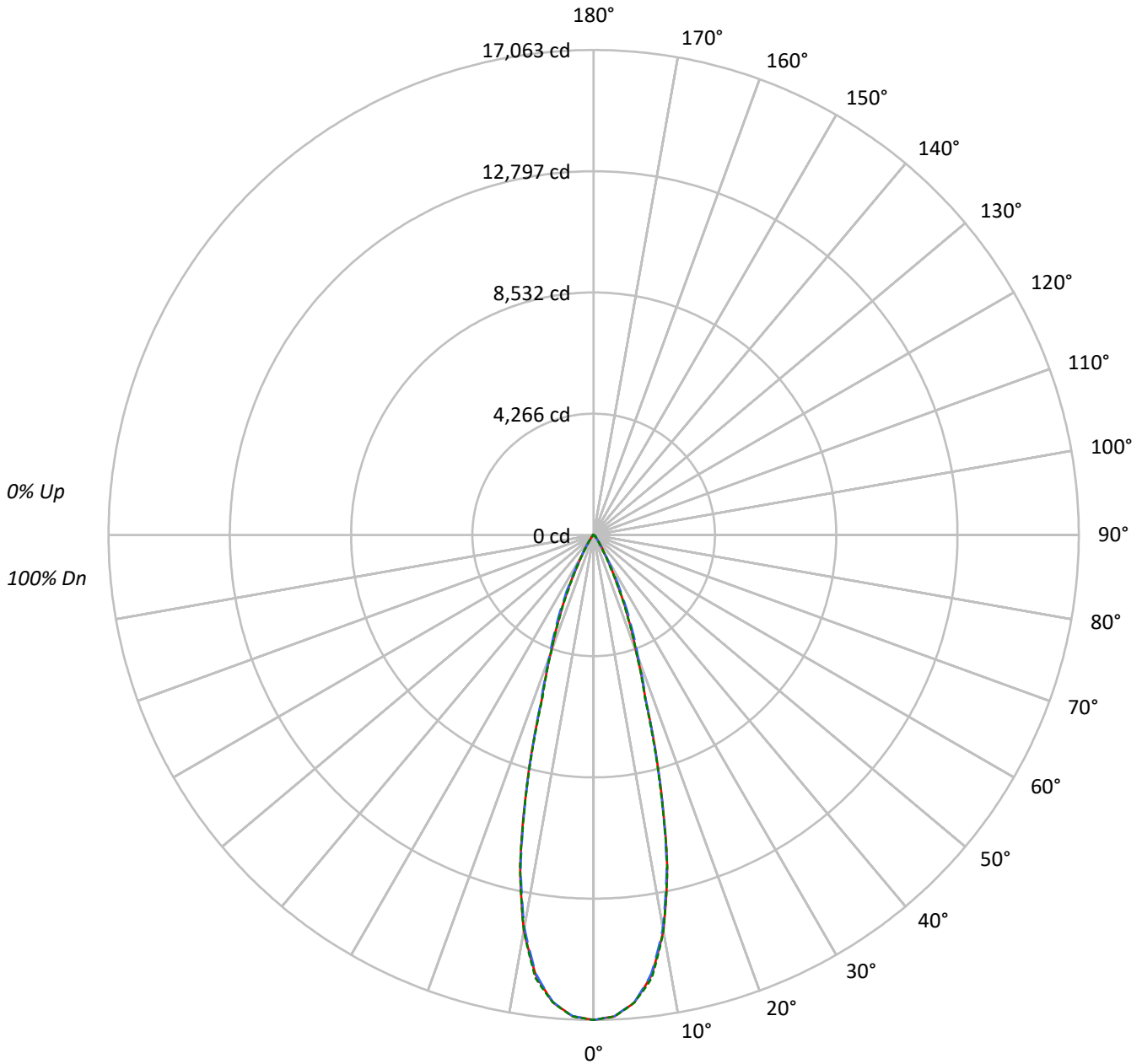
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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	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°	1306091	1306091	1306091
5°	1268597	1267114	1268659
10°	1098795	1091046	1098538
15°	716909	713057	709475
20°	356483	369858	356011
25°	179571	202501	175897
30°	71901	78335	62638
35°	33350	31939	26771
40°	14399	15987	13559
45°	10154	12600	10251
50°	3489	9181	3691
55°	2015	3803	2122
60°	1408	1669	1408
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12600 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1500.5	28.3
10°-20°	2416.5	45.5
20°-30°	1044.2	19.7
30°-40°	238.0	4.5
40°-50°	81.7	1.5
50°-60°	20.0	0.4
60°-70°	5.2	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°	4961.2	93.5
0°-40°	5199.2	98.0
0°-60°	5300.9	99.9
0°-90°	5306.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5306.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17063	17063	17063	17063	17063	
5°	16510	16494	16491	16526	16511	1502
15°	9047	8938	8998	8969	8953	2422
25°	2126	2207	2398	2150	2083	1018
35°	357	364	342	339	286	242
45°	94	116	116	116	95	67
55°	15	16	28	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°	17063.4	17063.4	17063.4	17063.4	17063.4
2.5°	16950.3	16938.6	16945.3	16953.6	16957.0
5°	16510.5	16494.5	16491.2	16525.5	16511.3
7.5°	15623.3	15600.7	15566.3	15644.2	15717.1
10°	14137.1	14112.0	14037.4	14074.3	14133.8
12.5°	11943.0	11861.8	11860.1	11977.4	11961.5
15°	9046.9	8938.0	8998.3	8969.0	8953.1
17.5°	6083.8	6041.9	6122.3	6098.0	5993.3
20°	4376.4	4387.3	4540.6	4463.6	4370.6
22.5°	3193.5	3232.9	3414.7	3216.1	3143.3
25°	2126.2	2206.6	2397.7	2150.5	2082.7
27.5°	1307.7	1344.6	1538.1	1291.0	1254.1
30°	813.5	795.0	886.3	760.7	708.7
32.5°	533.6	510.2	539.5	484.2	442.3
35°	356.9	364.4	341.8	339.3	286.5
37.5°	222.8	256.4	226.2	241.3	184.3
40°	144.1	186.0	160.0	176.8	135.7
42.5°	118.1	143.3	131.5	139.9	120.6
45°	93.8	116.4	116.4	116.4	94.7
47.5°	51.9	77.9	99.7	79.6	55.3
50°	29.3	39.4	77.1	41.0	31.0
52.5°	20.1	22.6	52.8	23.5	20.9
55°	15.1	15.9	28.5	16.8	15.9
57.5°	11.7	12.6	15.1	12.6	11.7
60°	9.2	9.2	10.9	10.1	9.2
62.5°	6.7	6.7	7.5	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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