

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: P793249

Luminaire Tested: LER6D50D010-EC6DR3040509024-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793249
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-EC6DR3040509024-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5060.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

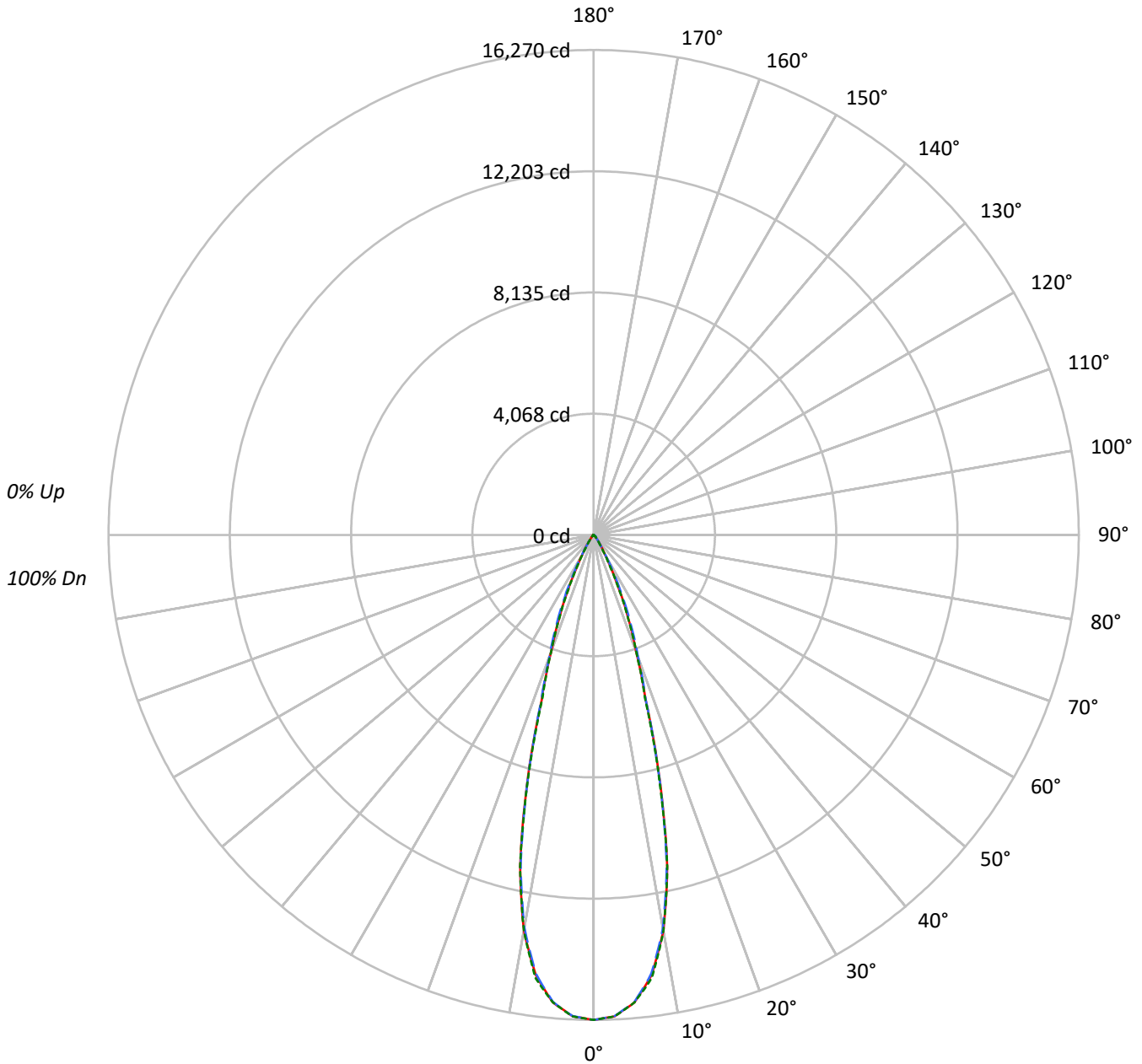
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1245376	1245376	1245376
5°	1209626	1208212	1209687
10°	1047714	1040331	1047466
15°	683587	679910	676494
20°	339915	352671	339459
25°	171227	193084	167713
30°	68551	74694	59730
35°	31798	30453	25528
40°	13729	15248	12930
45°	9688	12016	9775
50°	3334	8752	3525
55°	1922	3630	2028
60°	1347	1592	1347
65°	869	869	869
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: 12016 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1430.7	28.3
10°-20°	2304.2	45.5
20°-30°	995.7	19.7
30°-40°	226.9	4.5
40°-50°	77.9	1.5
50°-60°	19.0	0.4
60°-70°	4.9	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°	4730.6	93.5
0°-40°	4957.5	98.0
0°-60°	5054.5	99.9
0°-90°	5060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16270	16270	16270	16270	16270	
5°	15743	15728	15725	15757	15744	1432
15°	8626	8522	8580	8552	8537	2310
25°	2027	2104	2286	2050	1986	970
35°	340	348	326	324	273	231
45°	90	111	111	111	90	63
55°	14	15	27	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°	16270.2	16270.2	16270.2	16270.2	16270.2
2.5°	16162.3	16151.2	16157.5	16165.5	16168.7
5°	15743.0	15727.8	15724.6	15757.3	15743.8
7.5°	14897.0	14875.5	14842.7	14917.0	14986.5
10°	13479.9	13456.0	13384.9	13420.0	13476.7
12.5°	11387.8	11310.4	11308.8	11420.6	11405.4
15°	8626.4	8522.5	8580.0	8552.1	8536.9
17.5°	5801.0	5761.0	5837.7	5814.5	5714.7
20°	4173.0	4183.4	4329.6	4256.1	4167.4
22.5°	3045.1	3082.6	3256.0	3066.6	2997.1
25°	2027.4	2104.1	2286.2	2050.5	1985.8
27.5°	1246.9	1282.1	1466.6	1231.0	1195.8
30°	775.6	758.1	845.1	725.3	675.8
32.5°	508.8	486.5	514.4	461.7	421.8
35°	340.3	347.5	325.9	323.5	273.2
37.5°	212.5	244.4	215.7	230.1	175.7
40°	137.4	177.3	152.6	168.5	129.4
42.5°	112.6	136.6	125.4	133.4	115.0
45°	89.5	111.0	111.0	111.0	90.3
47.5°	49.5	74.3	95.1	75.9	52.7
50°	28.0	37.5	73.5	39.1	29.6
52.5°	19.2	21.6	50.3	22.4	20.0
55°	14.4	15.2	27.2	16.0	15.2
57.5°	11.2	12.0	14.4	12.0	11.2
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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