

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: P793259

Luminaire Tested: LER6D50D010-EC6DR3040509027-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793259
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-EC6DR3040509027-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5387.5 lumens
Efficiency: N/A
Efficacy: 114.6 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

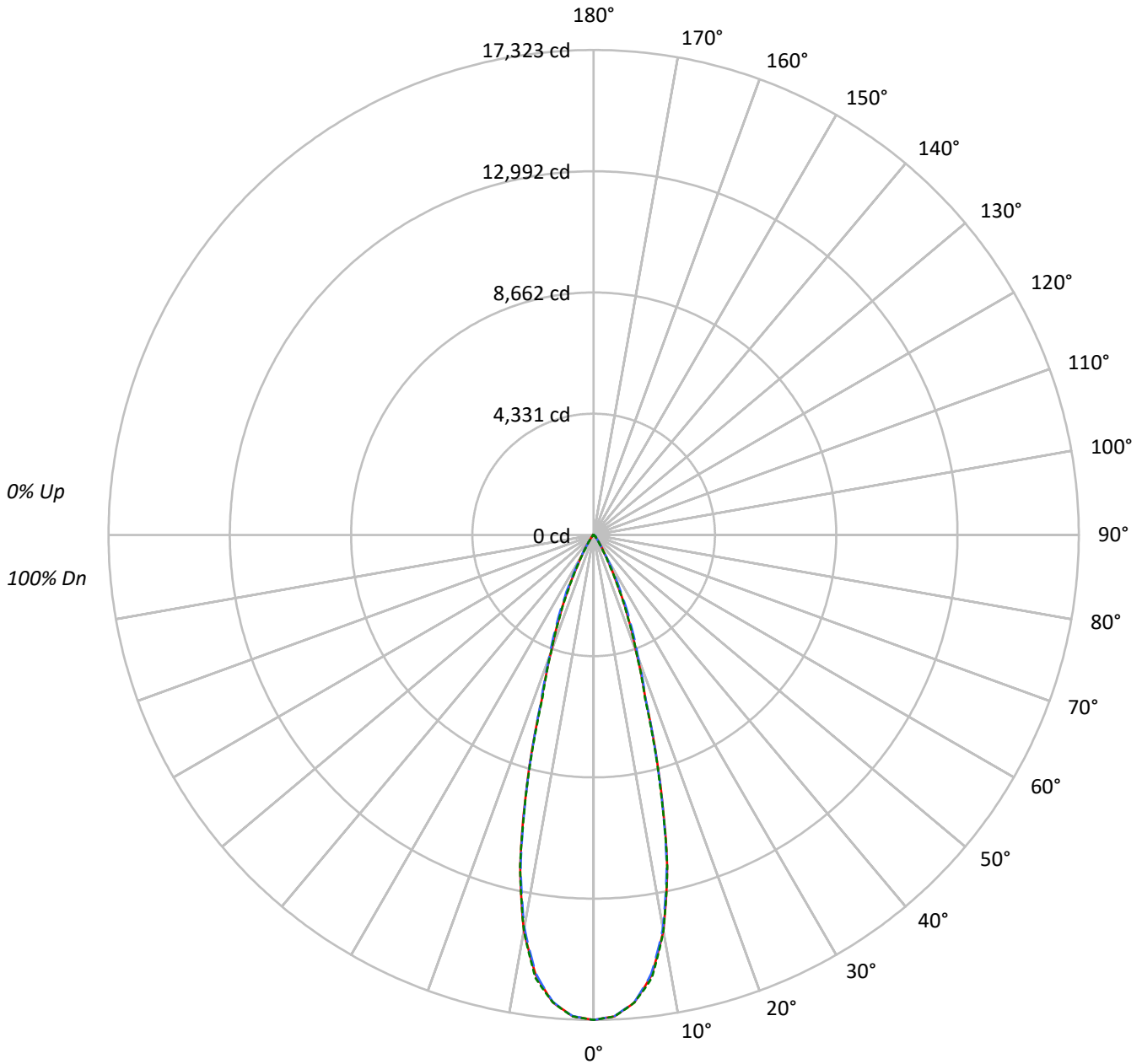
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
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°	1325992	1325992	1325992
5°	1287921	1286423	1287990
10°	1115537	1107671	1115272
15°	727836	723922	720284
20°	361916	375495	361436
25°	182307	205584	178574
30°	72997	79537	63593
35°	33854	32424	27182
40°	14618	16227	13769
45°	10316	12795	10403
50°	3549	9312	3751
55°	2042	3857	2162
60°	1439	1699	1439
65°	924	924	924
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12795 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1523.3	28.3
10°-20°	2453.3	45.5
20°-30°	1060.2	19.7
30°-40°	241.6	4.5
40°-50°	83.0	1.5
50°-60°	20.3	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5036.8	93.5
0°-40°	5278.5	98.0
0°-60°	5381.7	99.9
0°-90°	5387.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5387.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17323	17323	17323	17323	17323	
5°	16762	16746	16742	16777	16763	1525
15°	9185	9074	9135	9106	9090	2459
25°	2159	2240	2434	2183	2114	1033
35°	362	370	347	344	291	246
45°	95	118	118	118	96	68
55°	15	16	29	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°	17323.4	17323.4	17323.4	17323.4	17323.4
2.5°	17208.6	17196.7	17203.5	17212.0	17215.4
5°	16762.0	16745.9	16742.5	16777.4	16762.9
7.5°	15861.3	15838.4	15803.5	15882.6	15956.6
10°	14352.5	14327.0	14251.3	14288.7	14349.1
12.5°	12125.0	12042.5	12040.8	12159.9	12143.7
15°	9184.8	9074.2	9135.4	9105.7	9089.5
17.5°	6176.5	6133.9	6215.6	6190.9	6084.6
20°	4443.1	4454.2	4609.8	4531.6	4437.2
22.5°	3242.2	3282.2	3466.7	3265.1	3191.2
25°	2158.6	2240.3	2434.2	2183.3	2114.4
27.5°	1327.7	1365.1	1561.6	1310.7	1273.2
30°	825.9	807.1	899.9	772.3	719.5
32.5°	541.8	518.0	547.7	491.6	449.1
35°	362.3	370.0	347.0	344.5	290.9
37.5°	226.2	260.3	229.6	244.9	187.1
40°	146.3	188.8	162.4	179.5	137.8
42.5°	119.9	145.4	133.5	142.0	122.5
45°	95.3	118.2	118.2	118.2	96.1
47.5°	52.7	79.1	101.2	80.8	56.1
50°	29.8	40.0	78.2	41.7	31.5
52.5°	20.4	23.0	53.6	23.8	21.3
55°	15.3	16.2	28.9	17.0	16.2
57.5°	11.9	12.8	15.3	12.8	11.9
60°	9.4	9.4	11.1	10.2	9.4
62.5°	6.8	6.8	7.7	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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