

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: P793247

Luminaire Tested: LER6D50D010-EC6DR3040509024-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793247
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-EC6DR3040509024-6LBDDP1B
Description: 6 INCH ROUND 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: 3879.7 lumens
Efficiency: N/A
Efficacy: 82.5 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

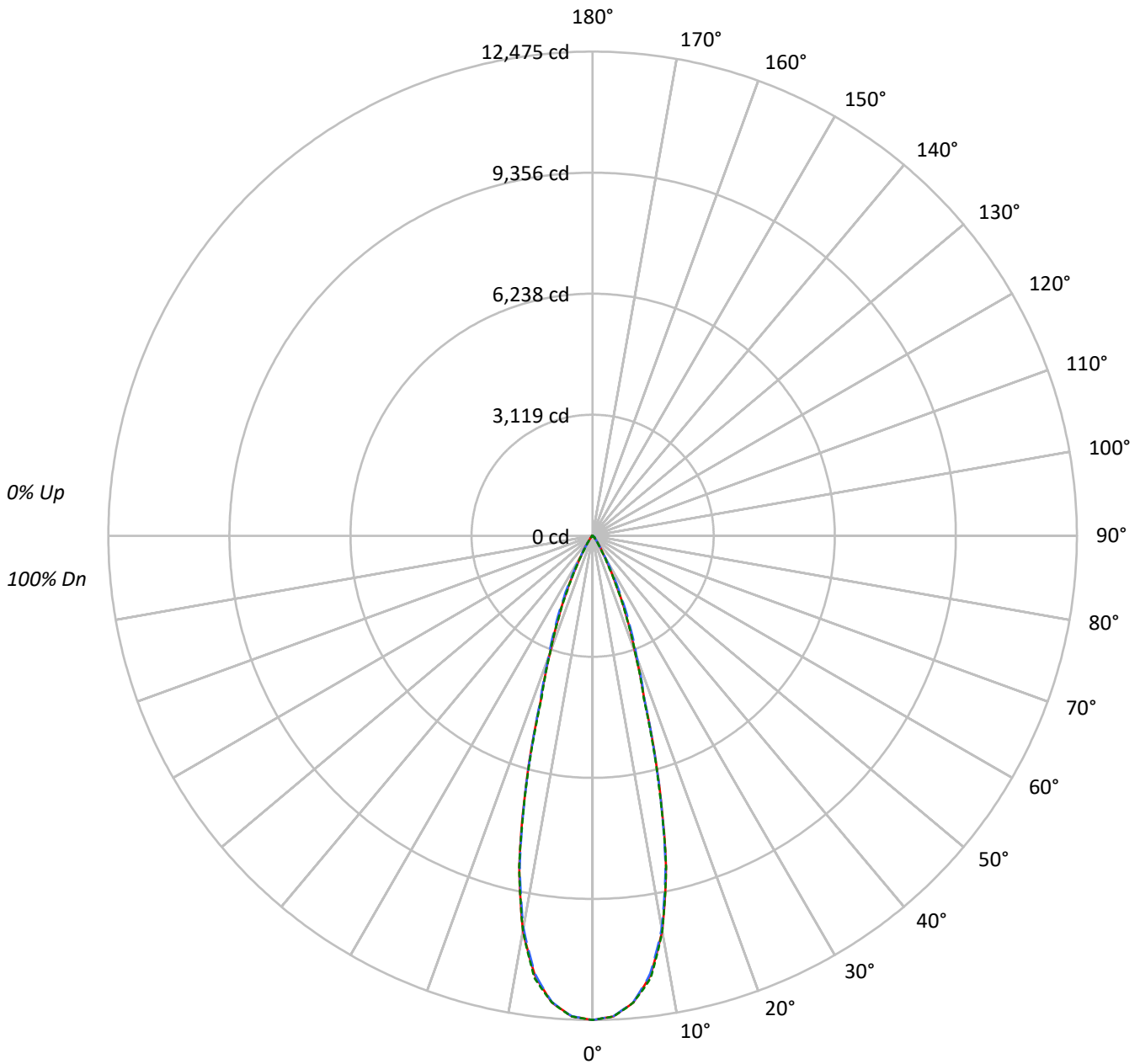
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	954894	954894	954894
5°	927485	926401	927531
10°	803342	797676	803155
15°	524141	521327	518705
20°	260634	270409	260284
25°	131287	148052	128602
30°	52562	57273	45801
35°	24379	23351	19576
40°	10522	11691	9912
45°	7426	9212	7491
50°	2548	6704	2703
55°	1468	2776	1548
60°	1026	1225	1026
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9212 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.0	28.3
10°-20°	1766.7	45.5
20°-30°	763.5	19.7
30°-40°	174.0	4.5
40°-50°	59.7	1.5
50°-60°	14.6	0.4
60°-70°	3.8	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°	3627.2	93.5
0°-40°	3801.2	98.0
0°-60°	3875.5	99.9
0°-90°	3879.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3879.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12475	12475	12475	12475	12475	
5°	12071	12059	12057	12082	12072	1098
15°	6614	6535	6579	6557	6546	1771
25°	1554	1613	1753	1572	1523	744
35°	261	266	250	248	210	177
45°	69	85	85	85	69	49
55°	11	12	21	12	12	11
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°	12475.2	12475.2	12475.2	12475.2	12475.2
2.5°	12392.6	12384.0	12388.9	12395.0	12397.5
5°	12071.0	12059.4	12056.9	12082.0	12071.6
7.5°	11422.4	11405.8	11380.7	11437.7	11491.0
10°	10335.8	10317.4	10262.9	10289.9	10333.4
12.5°	8731.7	8672.3	8671.1	8756.8	8745.2
15°	6614.3	6534.7	6578.8	6557.3	6545.7
17.5°	4447.9	4417.3	4476.1	4458.3	4381.8
20°	3199.7	3207.6	3319.7	3263.4	3195.4
22.5°	2334.8	2363.6	2496.5	2351.4	2298.1
25°	1554.5	1613.3	1753.0	1572.3	1522.7
27.5°	956.1	983.1	1124.5	943.9	916.9
30°	594.7	581.3	648.0	556.1	518.2
32.5°	390.2	373.0	394.4	354.0	323.4
35°	260.9	266.4	249.9	248.1	209.5
37.5°	162.9	187.4	165.4	176.4	134.7
40°	105.3	136.0	117.0	129.2	99.2
42.5°	86.4	104.7	96.2	102.3	88.2
45°	68.6	85.1	85.1	85.1	69.2
47.5°	38.0	57.0	72.9	58.2	40.4
50°	21.4	28.8	56.3	30.0	22.7
52.5°	14.7	16.5	38.6	17.1	15.3
55°	11.0	11.6	20.8	12.2	11.6
57.5°	8.6	9.2	11.0	9.2	8.6
60°	6.7	6.7	8.0	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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