

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: P793255

Luminaire Tested: LER6D50D010-EC6DR3040509027-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793255  
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-EC6DR3040509027-6LBDDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 4394.9 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

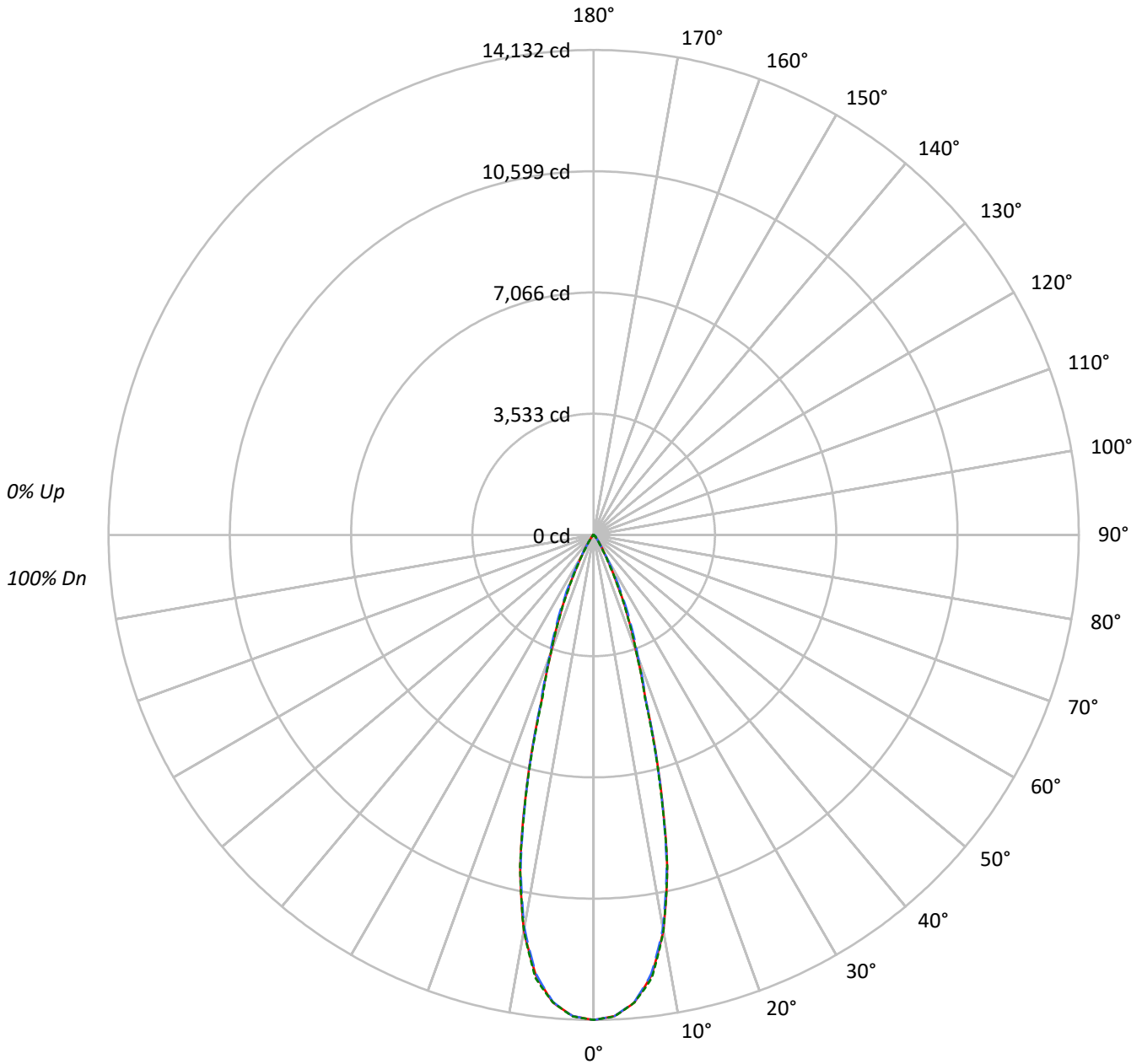
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1081688	1081688	1081688
5°	1050637	1049408	1050691
10°	910010	903590	909793
15°	593740	590547	587575
20°	295236	306314	294845
25°	148719	167705	145670
30°	59545	64883	51882
35°	27622	26453	22174
40°	11920	13239	11231
45°	8411	10435	8487
50°	2894	7597	3060
55°	1668	3149	1762
60°	1163	1378	1163
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10435 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1242.7	28.3
10°-20°	2001.3	45.5
20°-30°	864.8	19.7
30°-40°	197.1	4.5
40°-50°	67.7	1.5
50°-60°	16.5	0.4
60°-70°	4.3	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°	4108.8	93.5
0°-40°	4305.9	98.0
0°-60°	4390.1	99.9
0°-90°	4394.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4394.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14132	14132	14132	14132	14132	
5°	13674	13661	13658	13686	13674	1244
15°	7493	7402	7452	7428	7415	2006
25°	1761	1828	1986	1781	1725	843
35°	296	302	283	281	237	200
45°	78	96	96	96	78	55
55°	12	13	24	14	13	12
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14131.7	14131.7	14131.7	14131.7	14131.7
2.5°	14038.0	14028.3	14033.9	14040.8	14043.6
5°	13673.8	13660.6	13657.8	13686.3	13674.5
7.5°	12939.0	12920.3	12891.9	12956.4	13016.7
10°	11708.2	11687.4	11625.6	11656.2	11705.4
12.5°	9891.1	9823.8	9822.4	9919.5	9906.3
15°	7492.6	7402.4	7452.3	7428.0	7414.8
17.5°	5038.5	5003.8	5070.4	5050.3	4963.6
20°	3624.5	3633.5	3760.5	3696.7	3619.7
22.5°	2644.8	2677.4	2828.0	2663.6	2603.2
25°	1760.9	1827.5	1985.7	1781.0	1724.8
27.5°	1083.1	1113.6	1273.9	1069.2	1038.6
30°	673.7	658.4	734.1	630.0	587.0
32.5°	442.0	422.5	446.8	401.0	366.3
35°	295.6	301.8	283.1	281.0	237.3
37.5°	184.6	212.3	187.3	199.8	152.6
40°	119.3	154.0	132.5	146.4	112.4
42.5°	97.8	118.6	108.9	115.9	99.9
45°	77.7	96.4	96.4	96.4	78.4
47.5°	43.0	64.5	82.6	65.9	45.8
50°	24.3	32.6	63.8	34.0	25.7
52.5°	16.7	18.7	43.7	19.4	17.3
55°	12.5	13.2	23.6	13.9	13.2
57.5°	9.7	10.4	12.5	10.4	9.7
60°	7.6	7.6	9.0	8.3	7.6
62.5°	5.6	5.6	6.2	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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