

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: P790215

Luminaire Tested: LER6D20D010-EC6DR3020359050-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790215  
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: LER6D20D010-EC6DR3020359050-6LBDDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2821.1 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

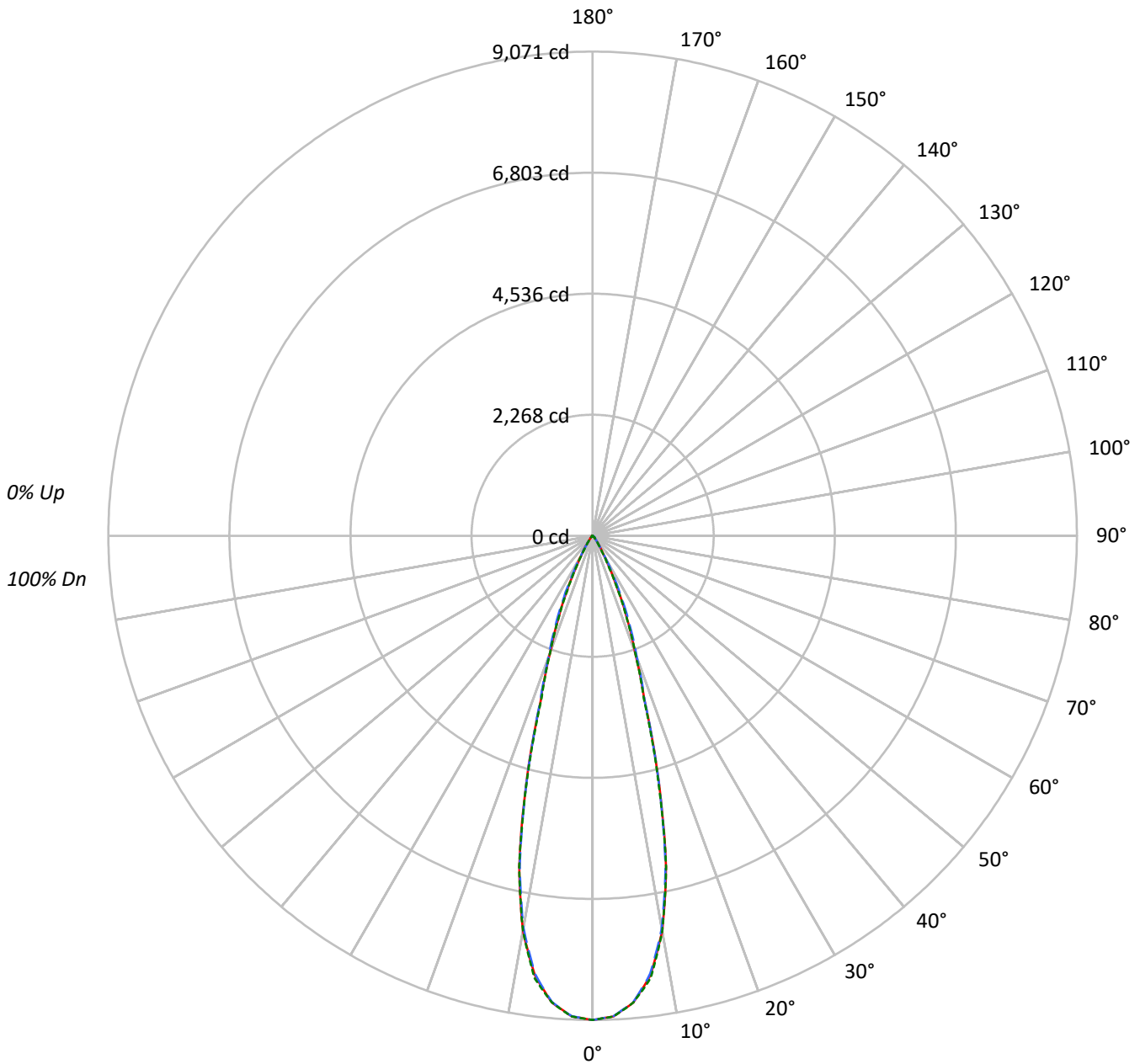
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	694348	694348	694348
5°	674418	673627	674449
10°	584144	580025	584004
15°	381130	379077	377176
20°	189515	196626	189263
25°	95469	107656	93510
30°	38226	41647	33303
35°	17726	16978	14231
40°	7654	8503	7214
45°	5402	6701	5445
50°	1858	4882	1965
55°	1068	2015	1134
60°	750	888	750
65°	489	489	489
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	797.7	28.3
10°-20°	1284.7	45.5
20°-30°	555.1	19.7
30°-40°	126.5	4.5
40°-50°	43.4	1.5
50°-60°	10.6	0.4
60°-70°	2.8	0.1
70°-80°	0.3	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°	2637.5	93.5
0°-40°	2764.0	98.0
0°-60°	2818.1	99.9
0°-90°	2821.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2821.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9071	9071	9071	9071	9071	
5°	8777	8769	8767	8785	8778	798
15°	4810	4752	4784	4768	4760	1288
25°	1130	1173	1275	1143	1107	541
35°	190	194	182	180	152	129
45°	50	62	62	62	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9071.3	9071.3	9071.3	9071.3	9071.3
2.5°	9011.2	9004.9	9008.5	9013.0	9014.7
5°	8777.4	8768.9	8767.1	8785.4	8777.8
7.5°	8305.7	8293.7	8275.4	8316.8	8355.6
10°	7515.6	7502.3	7462.6	7482.2	7513.8
12.5°	6349.2	6306.0	6305.1	6367.5	6359.0
15°	4809.6	4751.7	4783.7	4768.1	4759.7
17.5°	3234.3	3212.0	3254.8	3241.9	3186.2
20°	2326.6	2332.4	2413.9	2372.9	2323.5
22.5°	1697.8	1718.7	1815.3	1709.8	1671.0
25°	1130.4	1173.1	1274.7	1143.3	1107.2
27.5°	695.2	714.8	817.7	686.3	666.7
30°	432.5	422.7	471.2	404.4	376.8
32.5°	283.7	271.2	286.8	257.4	235.2
35°	189.7	193.7	181.7	180.4	152.3
37.5°	118.5	136.3	120.3	128.3	98.0
40°	76.6	98.9	85.1	94.0	72.2
42.5°	62.8	76.2	69.9	74.4	64.1
45°	49.9	61.9	61.9	61.9	50.3
47.5°	27.6	41.4	53.0	42.3	29.4
50°	15.6	20.9	41.0	21.8	16.5
52.5°	10.7	12.0	28.1	12.5	11.1
55°	8.0	8.5	15.1	8.9	8.5
57.5°	6.2	6.7	8.0	6.7	6.2
60°	4.9	4.9	5.8	5.3	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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(END OF REPORT)