

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: P790185

Luminaire Tested: LER6D20D010-EC6DR3020359027-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790185  
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-EC6DR3020359027-6LBDDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3323.7 lumens  
Efficiency: N/A  
Efficacy: 143.9 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

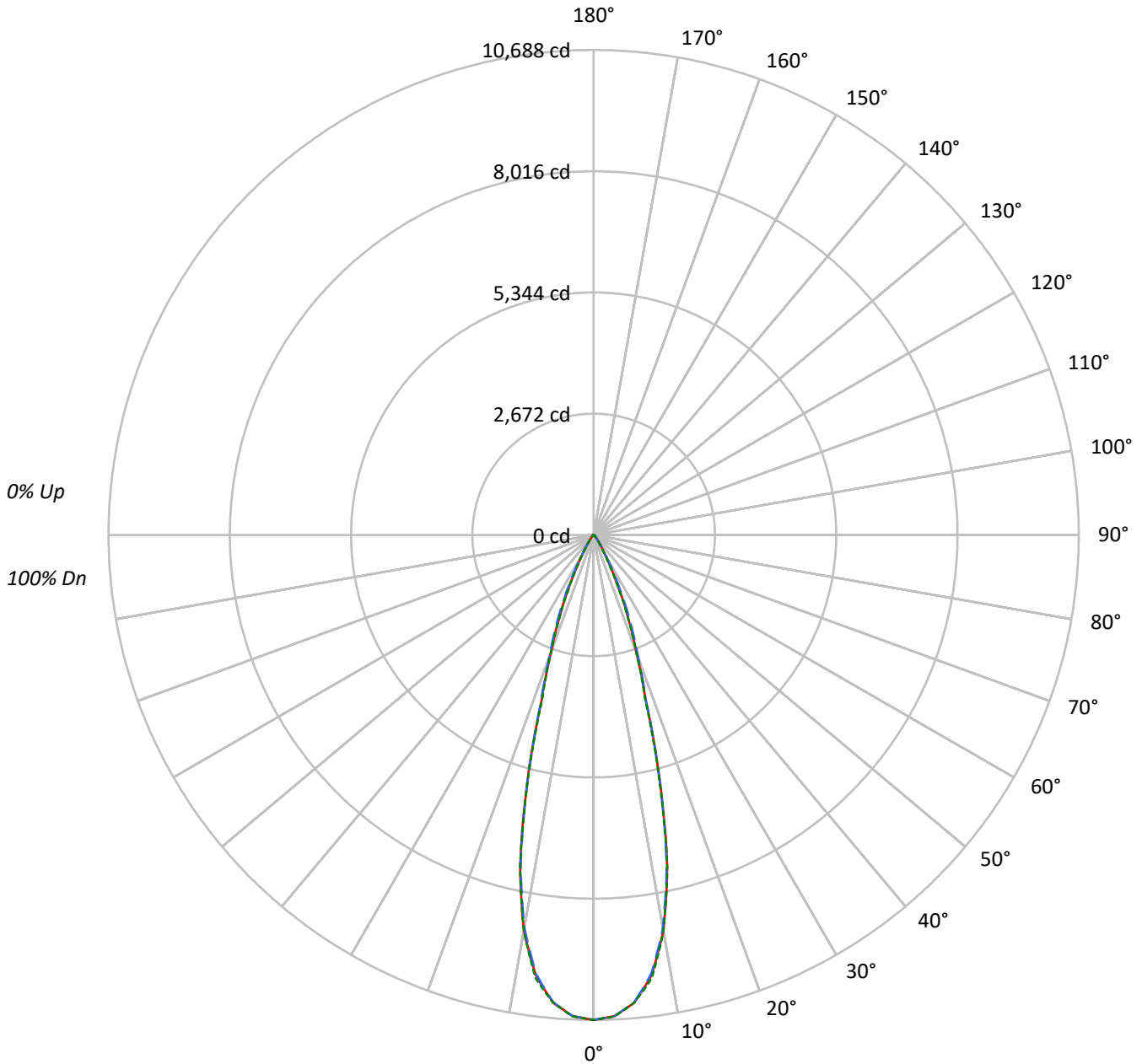
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	818058	818058	818058
5°	794566	793644	794613
10°	688217	683367	688053
15°	449026	446617	444374
20°	223278	231660	222985
25°	112470	126828	110165
30°	45032	49071	39234
35°	20884	20006	16773
40°	9023	10012	8493
45°	6365	7891	6419
50°	2191	5752	2310
55°	1254	2375	1334
60°	888	1041	888
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7891 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	939.8	28.3
10°-20°	1513.6	45.5
20°-30°	654.1	19.7
30°-40°	149.1	4.5
40°-50°	51.2	1.5
50°-60°	12.5	0.4
60°-70°	3.2	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°	3107.4	93.5
0°-40°	3256.5	98.0
0°-60°	3320.2	99.9
0°-90°	3323.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10688	10688	10688	10688	10688	
5°	10341	10331	10329	10351	10342	941
15°	5666	5598	5636	5618	5608	1517
25°	1332	1382	1502	1347	1304	637
35°	224	228	214	212	180	152
45°	59	73	73	73	59	42
55°	9	10	18	10	10	9
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°	10687.5	10687.5	10687.5	10687.5	10687.5
2.5°	10616.6	10609.3	10613.5	10618.7	10620.8
5°	10341.1	10331.2	10329.1	10350.6	10341.7
7.5°	9785.5	9771.3	9749.8	9798.6	9844.2
10°	8854.6	8838.9	8792.2	8815.3	8852.5
12.5°	7480.4	7429.5	7428.4	7501.9	7491.9
15°	5666.4	5598.2	5636.0	5617.6	5607.7
17.5°	3810.5	3784.3	3834.6	3819.4	3753.8
20°	2741.1	2748.0	2844.0	2795.7	2737.5
22.5°	2000.2	2024.9	2138.8	2014.4	1968.7
25°	1331.7	1382.1	1501.7	1347.0	1304.4
27.5°	819.1	842.2	963.4	808.6	785.5
30°	509.5	498.0	555.2	476.4	443.9
32.5°	334.2	319.6	337.9	303.3	277.1
35°	223.5	228.3	214.1	212.5	179.5
37.5°	139.6	160.6	141.7	151.1	115.4
40°	90.3	116.5	100.2	110.7	85.0
42.5°	74.0	89.7	82.4	87.6	75.6
45°	58.8	72.9	72.9	72.9	59.3
47.5°	32.5	48.8	62.4	49.8	34.6
50°	18.4	24.7	48.3	25.7	19.4
52.5°	12.6	14.2	33.1	14.7	13.1
55°	9.4	10.0	17.8	10.5	10.0
57.5°	7.3	7.9	9.4	7.9	7.3
60°	5.8	5.8	6.8	6.3	5.8
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)