

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: P790205

Luminaire Tested: LER6D20D010-EC6DR3020359035-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790205  
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-EC6DR3020359035-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3813.7 lumens  
Efficiency: N/A  
Efficacy: 165.1 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

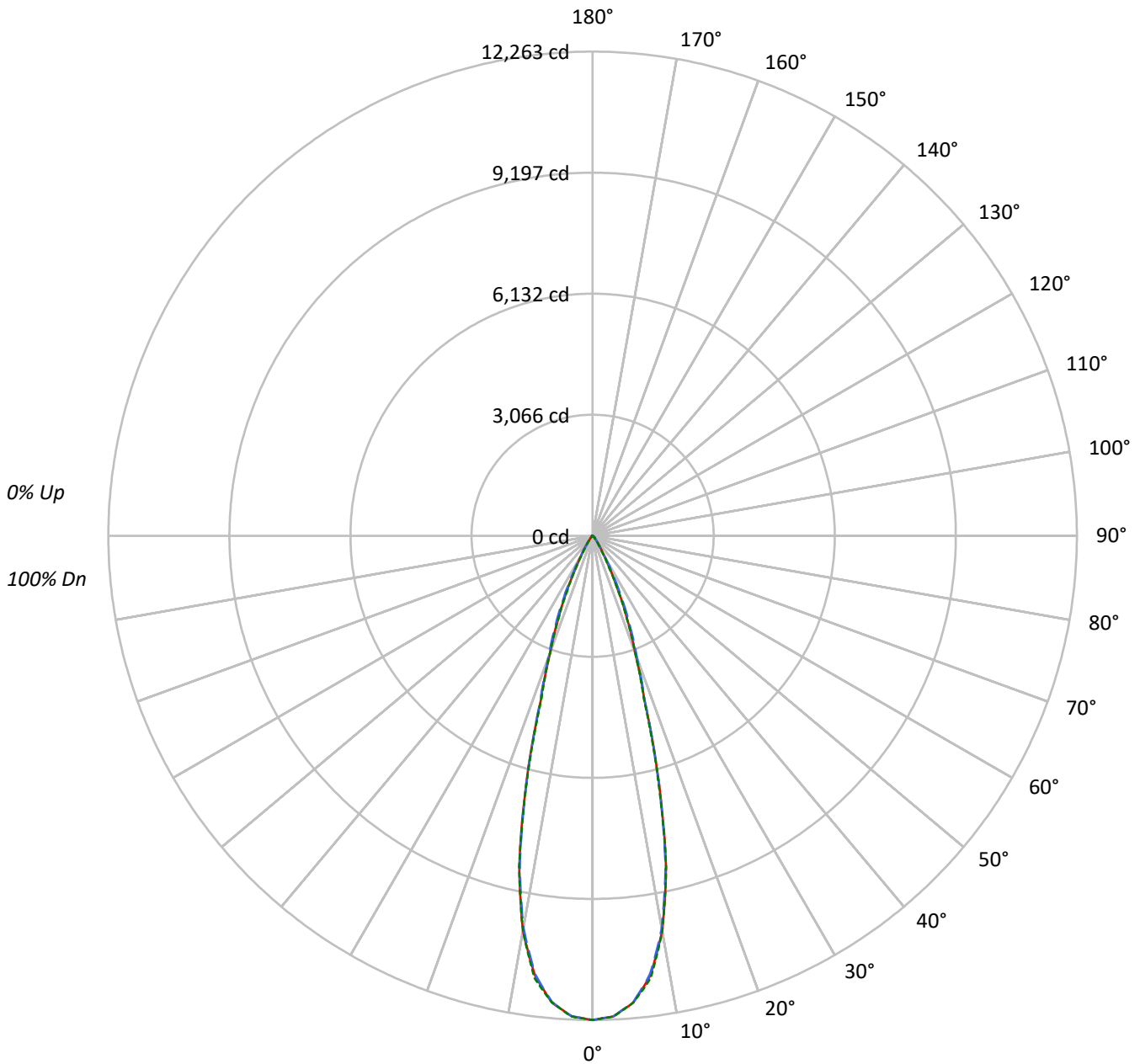
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	938652	938652	938652
5°	911703	910642	911749
10°	789670	784105	789484
15°	515226	512452	509877
20°	256195	265807	255853
25°	129058	145527	126406
30°	51670	56301	45023
35°	23968	22949	19240
40°	10352	11491	9742
45°	7296	9060	7361
50°	2513	6597	2655
55°	1441	2736	1521
60°	1010	1194	1010
65°	652	652	652
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: 9060 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1078.3	28.3
10°-20°	1736.7	45.5
20°-30°	750.5	19.7
30°-40°	171.0	4.5
40°-50°	58.7	1.5
50°-60°	14.3	0.4
60°-70°	3.7	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°	3565.5	93.5
0°-40°	3736.5	98.0
0°-60°	3809.6	99.9
0°-90°	3813.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3813.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12263	12263	12263	12263	12263	
5°	11866	11854	11852	11876	11866	1079
15°	6502	6424	6467	6446	6434	1741
25°	1528	1586	1723	1546	1497	731
35°	256	262	246	244	206	174
45°	67	84	84	84	68	48
55°	11	11	20	12	11	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°	12263.0	12263.0	12263.0	12263.0	12263.0
2.5°	12181.7	12173.3	12178.1	12184.1	12186.5
5°	11865.6	11854.2	11851.8	11876.5	11866.2
7.5°	11228.0	11211.8	11187.1	11243.1	11295.5
10°	10159.9	10141.9	10088.3	10114.8	10157.5
12.5°	8583.1	8524.7	8523.5	8607.8	8596.4
15°	6501.8	6423.5	6466.8	6445.8	6434.3
17.5°	4372.2	4342.1	4399.9	4382.5	4307.2
20°	3145.2	3153.0	3263.2	3207.8	3141.0
22.5°	2295.1	2323.4	2454.0	2311.4	2259.0
25°	1528.1	1585.9	1723.1	1545.5	1496.7
27.5°	939.8	966.3	1105.4	927.8	901.3
30°	584.6	571.4	637.0	546.7	509.4
32.5°	383.5	366.7	387.7	348.0	317.9
35°	256.5	261.9	245.6	243.8	205.9
37.5°	160.2	184.2	162.6	173.4	132.5
40°	103.6	133.7	115.0	127.0	97.5
42.5°	84.9	103.0	94.5	100.5	86.7
45°	67.4	83.7	83.7	83.7	68.0
47.5°	37.3	56.0	71.6	57.2	39.7
50°	21.1	28.3	55.4	29.5	22.3
52.5°	14.4	16.3	37.9	16.9	15.1
55°	10.8	11.4	20.5	12.0	11.4
57.5°	8.4	9.0	10.8	9.0	8.4
60°	6.6	6.6	7.8	7.2	6.6
62.5°	4.8	4.8	5.4	4.8	4.8
65°	3.6	3.6	3.6	3.6	3.6
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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