

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: P790182

Luminaire Tested: LER6D20D010-EC6DR3020359024-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790182  
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-EC6DR3020359024-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2853.3 lumens  
Efficiency: N/A  
Efficacy: 123.5 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

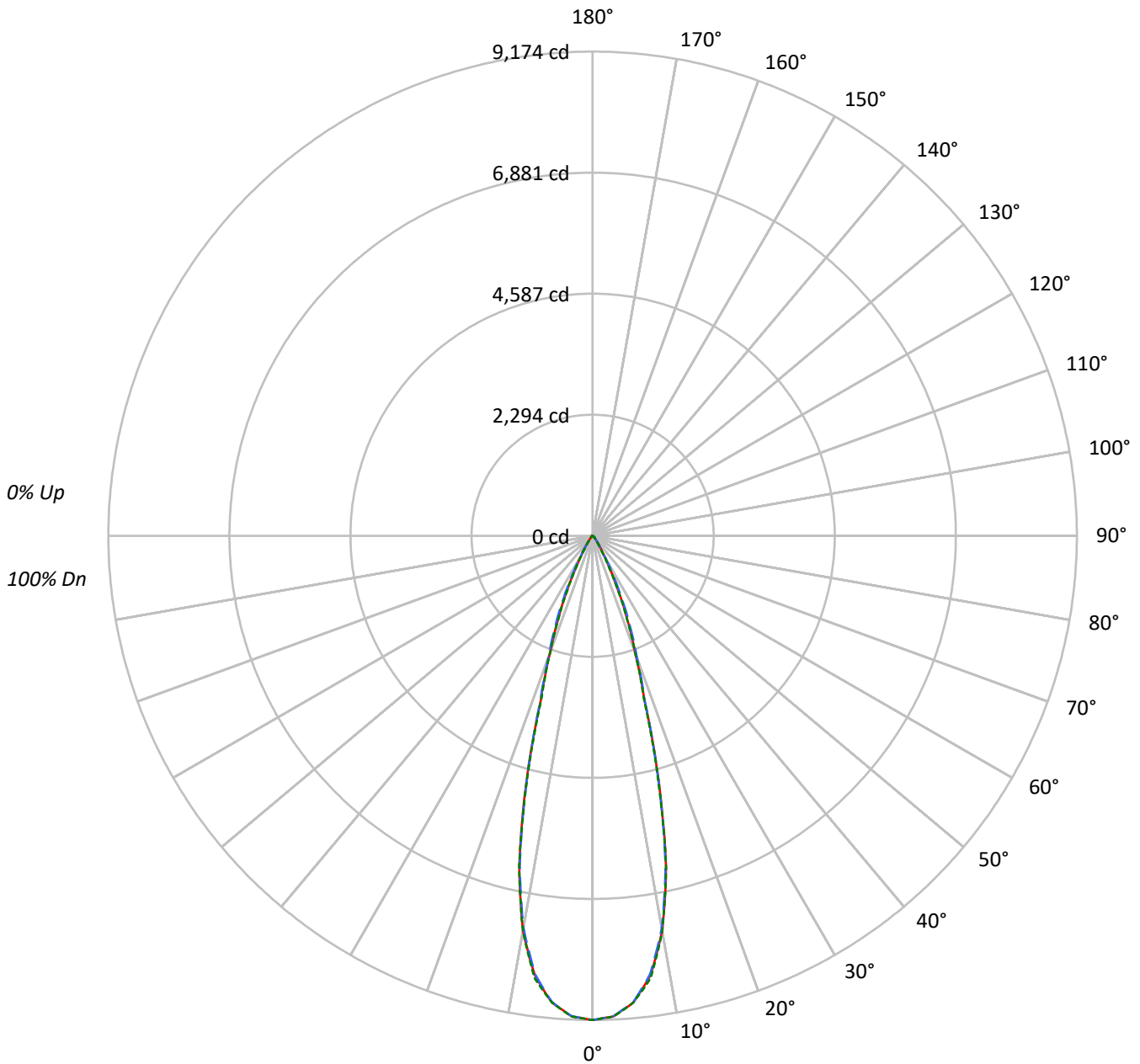
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	702247	702247	702247
5°	682087	681295	682125
10°	590789	586623	590650
15°	385464	383396	381463
20°	191674	198866	191413
25°	96550	108881	94574
30°	38659	42124	33683
35°	17932	17175	14390
40°	7744	8593	7294
45°	5456	6776	5510
50°	1881	4930	1989
55°	1081	2042	1148
60°	765	903	765
65°	489	489	489
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6776 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	806.8	28.3
10°-20°	1299.3	45.5
20°-30°	561.5	19.7
30°-40°	128.0	4.5
40°-50°	43.9	1.5
50°-60°	10.7	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°	2667.5	93.5
0°-40°	2795.5	98.0
0°-60°	2850.2	99.9
0°-90°	2853.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9174	9174	9174	9174	9174	
5°	8877	8869	8867	8885	8878	807
15°	4864	4806	4838	4822	4814	1302
25°	1143	1186	1289	1156	1120	547
35°	192	196	184	182	154	130
45°	50	63	63	63	51	36
55°	8	9	15	9	9	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°	9174.5	9174.5	9174.5	9174.5	9174.5
2.5°	9113.7	9107.4	9111.0	9115.5	9117.3
5°	8877.2	8868.7	8866.9	8885.3	8877.7
7.5°	8400.2	8388.1	8369.6	8411.5	8450.7
10°	7601.1	7587.6	7547.5	7567.4	7599.3
12.5°	6421.4	6377.8	6376.9	6439.9	6431.4
15°	4864.3	4805.7	4838.2	4822.4	4813.8
17.5°	3271.1	3248.6	3291.8	3278.7	3222.4
20°	2353.1	2358.9	2441.4	2399.9	2349.9
22.5°	1717.1	1738.2	1836.0	1729.2	1690.0
25°	1143.2	1186.5	1289.2	1156.3	1119.8
27.5°	703.1	723.0	827.0	694.1	674.3
30°	437.4	427.5	476.6	409.0	381.1
32.5°	286.9	274.3	290.1	260.4	237.8
35°	191.9	195.9	183.8	182.4	154.0
37.5°	119.8	137.8	121.6	129.7	99.1
40°	77.5	100.0	86.0	95.0	73.0
42.5°	63.5	77.0	70.7	75.2	64.9
45°	50.4	62.6	62.6	62.6	50.9
47.5°	27.9	41.9	53.6	42.8	29.7
50°	15.8	21.2	41.4	22.1	16.7
52.5°	10.8	12.2	28.4	12.6	11.3
55°	8.1	8.6	15.3	9.0	8.6
57.5°	6.3	6.8	8.1	6.8	6.3
60°	5.0	5.0	5.9	5.4	5.0
62.5°	3.6	3.6	4.1	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.4	1.8	1.8	1.8	1.8
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)