

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: P788366

Luminaire Tested: LER6D08D010-EC6DR300210IC9050-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P788366  
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: LER6D08D010-EC6DR300210IC9050-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1421.3 lumens  
Efficiency: N/A  
Efficacy: 159.7 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

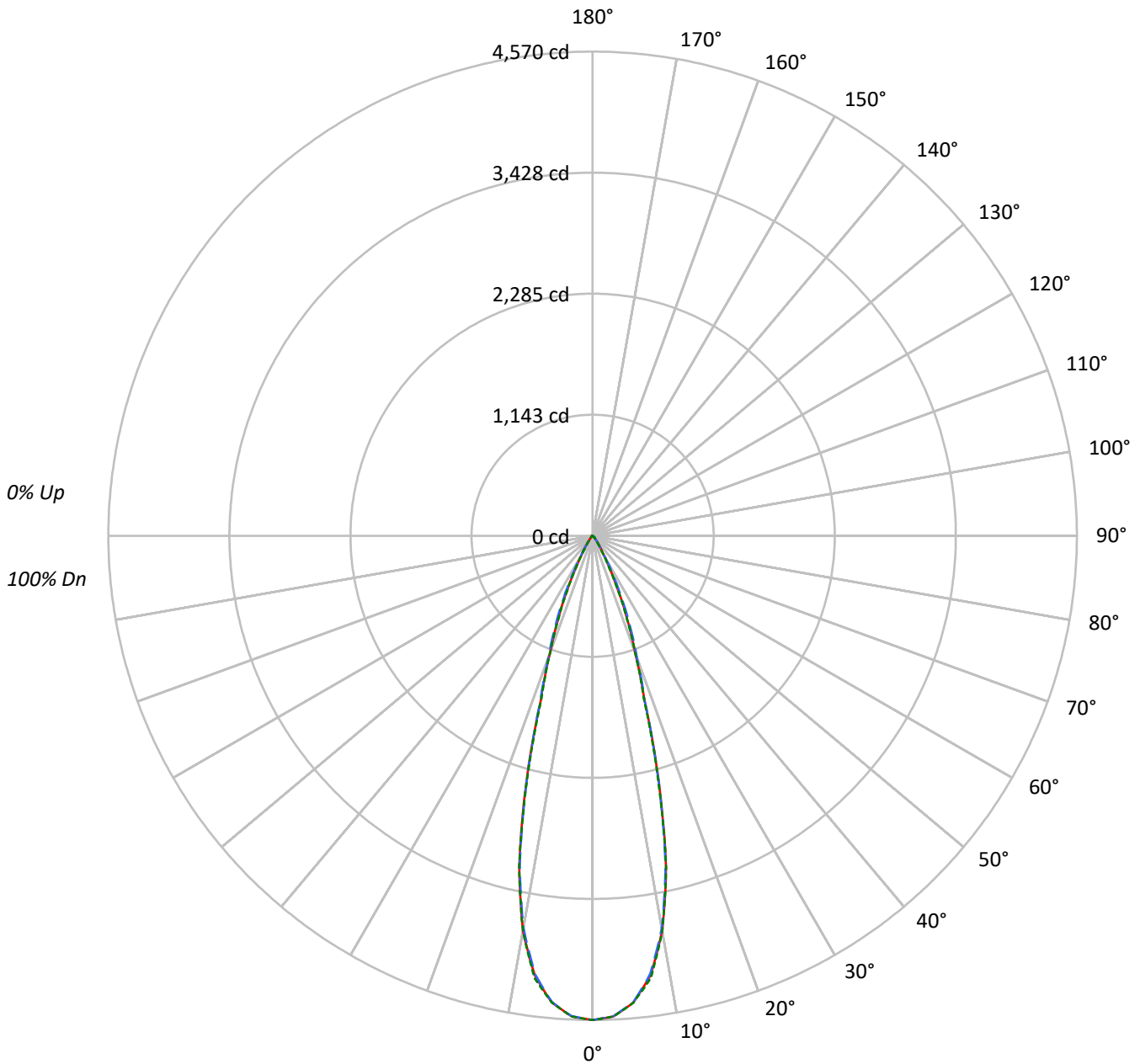
Input Watts (W): 8.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	87	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°	349834	349834	349834
5°	339791	339391	339806
10°	294310	292235	294241
15°	192023	190993	190034
20°	95482	99067	95360
25°	48098	54238	47110
30°	19259	20983	16775
35°	8933	8559	7167
40°	3857	4287	3637
45°	2717	3377	2750
50°	941	2453	988
55°	534	1014	574
60°	383	444	383
65°	235	235	235
70°	157	90	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3377 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.9	28.3
10°-20°	647.3	45.5
20°-30°	279.7	19.7
30°-40°	63.8	4.5
40°-50°	21.9	1.5
50°-60°	5.3	0.4
60°-70°	1.4	0.1
70°-80°	0.1	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°	1328.8	93.5
0°-40°	1392.6	98.0
0°-60°	1419.8	99.9
0°-90°	1421.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4570	4570	4570	4570	4570	
5°	4422	4418	4417	4426	4422	402
15°	2423	2394	2410	2402	2398	649
25°	570	591	642	576	558	273
35°	96	98	92	91	77	65
45°	25	31	31	31	25	18
55°	4	4	8	4	4	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4570.4	4570.4	4570.4	4570.4	4570.4
2.5°	4540.1	4537.0	4538.8	4541.0	4541.9
5°	4422.3	4418.0	4417.1	4426.3	4422.5
7.5°	4184.7	4178.6	4169.4	4190.3	4209.8
10°	3786.6	3779.9	3759.9	3769.8	3785.7
12.5°	3198.9	3177.2	3176.7	3208.1	3203.9
15°	2423.2	2394.0	2410.2	2402.3	2398.1
17.5°	1629.5	1618.3	1639.9	1633.3	1605.3
20°	1172.2	1175.1	1216.2	1195.6	1170.7
22.5°	855.4	865.9	914.6	861.4	841.9
25°	569.5	591.0	642.2	576.0	557.8
27.5°	350.3	360.1	412.0	345.8	335.9
30°	217.9	212.9	237.4	203.7	189.8
32.5°	142.9	136.7	144.5	129.7	118.5
35°	95.6	97.6	91.6	90.9	76.7
37.5°	59.7	68.7	60.6	64.6	49.4
40°	38.6	49.8	42.9	47.3	36.4
42.5°	31.6	38.4	35.2	37.5	32.3
45°	25.1	31.2	31.2	31.2	25.4
47.5°	13.9	20.9	26.7	21.3	14.8
50°	7.9	10.5	20.6	11.0	8.3
52.5°	5.4	6.1	14.1	6.3	5.6
55°	4.0	4.3	7.6	4.5	4.3
57.5°	3.1	3.4	4.0	3.4	3.1
60°	2.5	2.5	2.9	2.7	2.5
62.5°	1.8	1.8	2.0	1.8	1.8
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.4	0.4	0.4	0.7
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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)