

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: P790790

Luminaire Tested: LER6D25D010-EC6DR3020359040-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790790  
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: LER6D25D010-EC6DR3020359040-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5246.1 lumens  
Efficiency: N/A  
Efficacy: 209.0 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

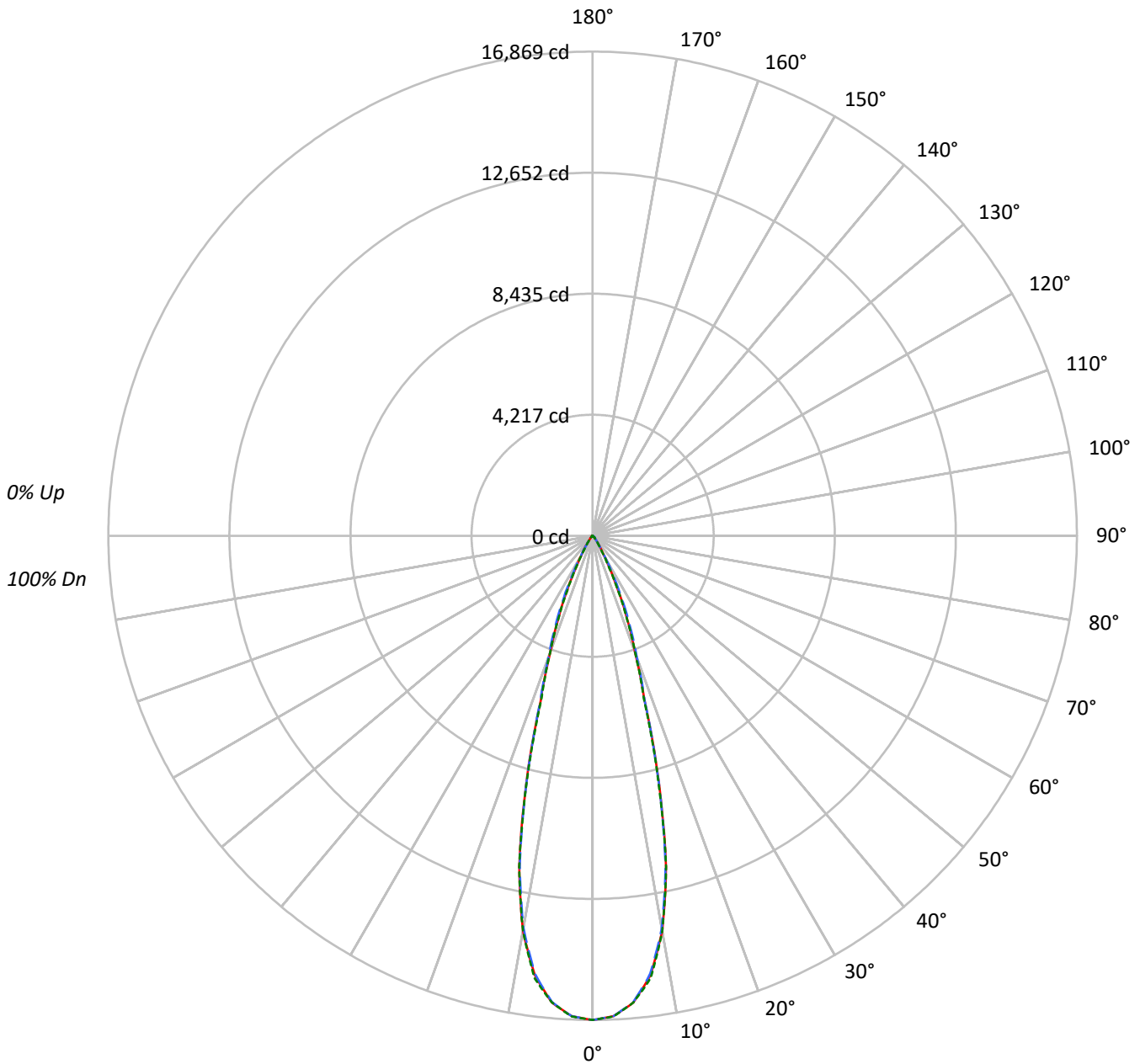
Input Watts (W): 25.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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																			
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°	1291180	1291180	1291180
5°	1254114	1252646	1254175
10°	1086250	1078587	1085994
15°	708723	704919	701377
20°	352418	365639	351946
25°	177519	200187	173887
30°	71079	77443	61922
35°	32966	31574	26463
40°	14229	15807	13409
45°	10045	12459	10132
50°	3453	9074	3644
55°	1988	3763	2095
60°	1393	1653	1393
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12459 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1483.3	28.3
10°-20°	2388.9	45.5
20°-30°	1032.3	19.7
30°-40°	235.3	4.5
40°-50°	80.8	1.5
50°-60°	19.7	0.4
60°-70°	5.1	0.1
70°-80°	0.5	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°	4904.6	93.5
0°-40°	5139.9	98.0
0°-60°	5240.4	99.9
0°-90°	5246.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5246.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16869	16869	16869	16869	16869	
5°	16322	16306	16303	16337	16323	1485
15°	8944	8836	8896	8867	8851	2395
25°	2102	2182	2370	2126	2059	1006
35°	353	360	338	335	283	239
45°	93	115	115	115	94	66
55°	15	16	28	17	16	15
65°	5	5	5	5	5	5
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°	16868.6	16868.6	16868.6	16868.6	16868.6
2.5°	16756.8	16745.2	16751.8	16760.1	16763.4
5°	16322.0	16306.2	16302.9	16336.9	16322.8
7.5°	15444.9	15422.5	15388.6	15465.6	15537.7
10°	13975.7	13950.8	13877.1	13913.6	13972.4
12.5°	11806.7	11726.3	11724.7	11840.6	11824.9
15°	8943.6	8836.0	8895.6	8866.6	8850.9
17.5°	6014.3	5972.9	6052.4	6028.4	5924.9
20°	4326.5	4337.2	4488.8	4412.6	4320.7
22.5°	3157.1	3196.0	3375.7	3179.4	3107.4
25°	2101.9	2181.5	2370.3	2126.0	2058.9
27.5°	1292.8	1329.2	1520.6	1276.2	1239.8
30°	804.2	786.0	876.2	752.0	700.6
32.5°	527.6	504.4	533.4	478.7	437.3
35°	352.8	360.3	337.9	335.4	283.2
37.5°	220.3	253.4	223.6	238.5	182.2
40°	142.4	183.9	158.2	174.7	134.2
42.5°	116.8	141.6	130.0	138.3	119.3
45°	92.8	115.1	115.1	115.1	93.6
47.5°	51.3	77.0	98.6	78.7	54.7
50°	29.0	38.9	76.2	40.6	30.6
52.5°	19.9	22.4	52.2	23.2	20.7
55°	14.9	15.7	28.2	16.6	15.7
57.5°	11.6	12.4	14.9	12.4	11.6
60°	9.1	9.1	10.8	9.9	9.1
62.5°	6.6	6.6	7.5	6.6	6.6
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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