

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: P745093

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D25D010-EU4DR3020359040-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 2122.3 lumens  
Efficiency: N/A  
Efficacy: 84.6 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 (Ain): 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



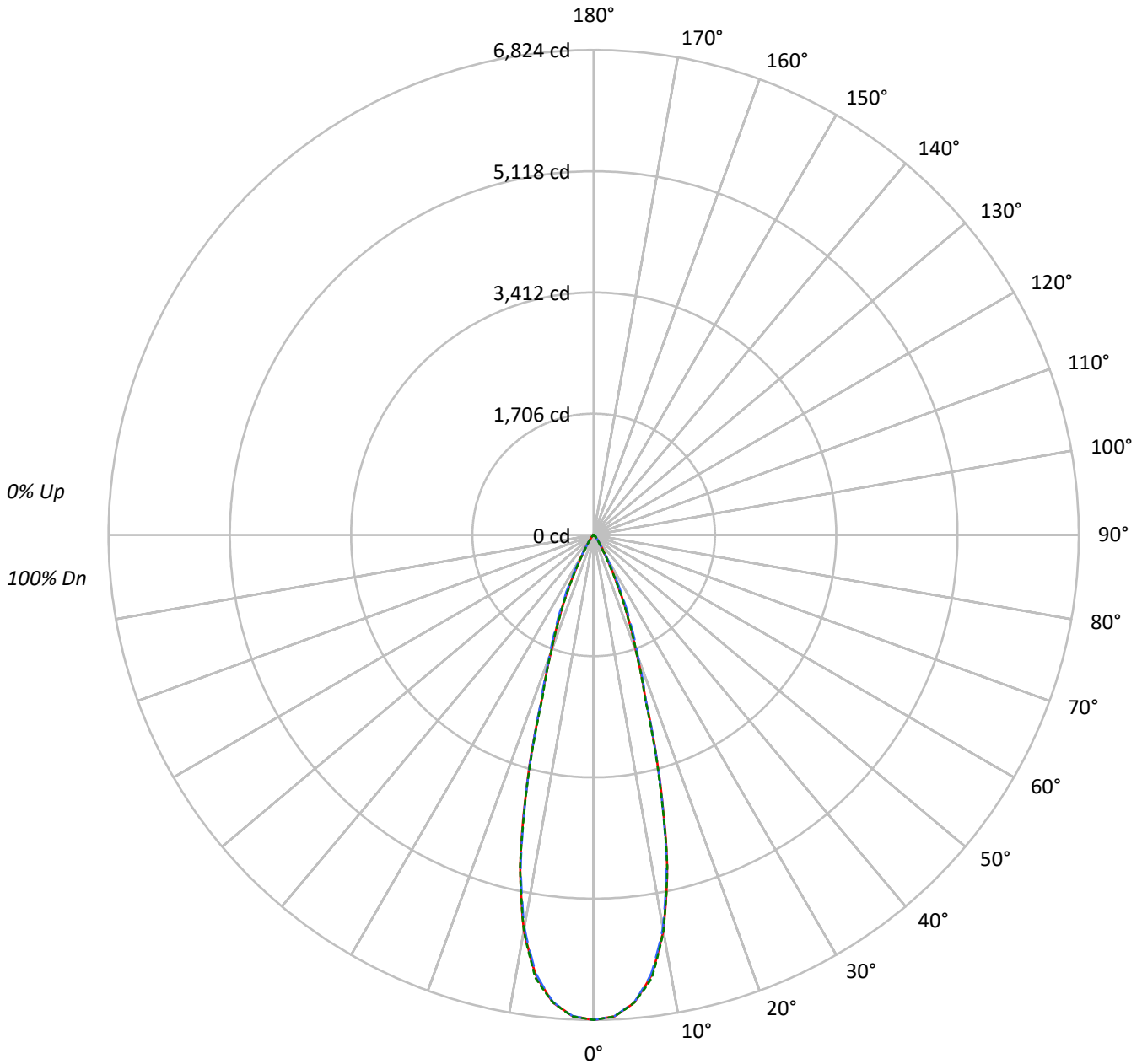
Downlight



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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°	522355	522355	522355
5°	507354	506770	507385
10°	439453	436351	439344
15°	286719	285182	283747
20°	142572	147924	142385
25°	71822	80985	70352
30°	28752	31332	25048
35°	13334	12774	10708
40°	5755	6395	5426
45°	4059	5044	4103
50°	1393	3668	1477
55°	801	1521	854
60°	566	674	566
65°	362	362	362
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5044 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.1	28.3
10°-20°	966.5	45.5
20°-30°	417.6	19.7
30°-40°	95.2	4.5
40°-50°	32.7	1.5
50°-60°	8.0	0.4
60°-70°	2.1	0.1
70°-80°	0.2	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°	1984.2	93.5
0°-40°	2079.4	98.0
0°-60°	2120.1	99.9
0°-90°	2122.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6824	6824	6824	6824	6824	
5°	6603	6597	6596	6609	6604	601
15°	3618	3575	3599	3587	3581	969
25°	850	882	959	860	833	407
35°	143	146	137	136	115	97
45°	38	47	47	47	38	27
55°	6	6	11	7	6	6
65°	2	2	2	2	2	2
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°	6824.3	6824.3	6824.3	6824.3	6824.3
2.5°	6779.1	6774.4	6777.0	6780.4	6781.7
5°	6603.1	6596.8	6595.5	6609.2	6603.5
7.5°	6248.4	6239.3	6225.6	6256.7	6285.9
10°	5654.0	5643.9	5614.1	5628.8	5652.6
12.5°	4776.5	4744.0	4743.3	4790.2	4783.9
15°	3618.2	3574.6	3598.8	3587.1	3580.7
17.5°	2433.2	2416.4	2448.6	2438.8	2396.9
20°	1750.3	1754.7	1816.0	1785.1	1748.0
22.5°	1277.2	1293.0	1365.7	1286.3	1257.1
25°	850.4	882.5	958.9	860.1	833.0
27.5°	523.0	537.8	615.2	516.3	501.6
30°	325.3	318.0	354.5	304.2	283.4
32.5°	213.4	204.0	215.8	193.7	176.9
35°	142.7	145.8	136.7	135.7	114.6
37.5°	89.2	102.5	90.5	96.5	73.7
40°	57.6	74.4	64.0	70.7	54.3
42.5°	47.3	57.3	52.6	56.0	48.2
45°	37.5	46.6	46.6	46.6	37.9
47.5°	20.8	31.2	39.9	31.9	22.1
50°	11.7	15.8	30.8	16.4	12.4
52.5°	8.0	9.1	21.1	9.4	8.4
55°	6.0	6.4	11.4	6.7	6.4
57.5°	4.7	5.0	6.0	5.0	4.7
60°	3.7	3.7	4.4	4.0	3.7
62.5°	2.7	2.7	3.0	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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