

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: P745066

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745066  
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-EU4DR3020359030-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1767.0 lumens  
Efficiency: N/A  
Efficacy: 70.4 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



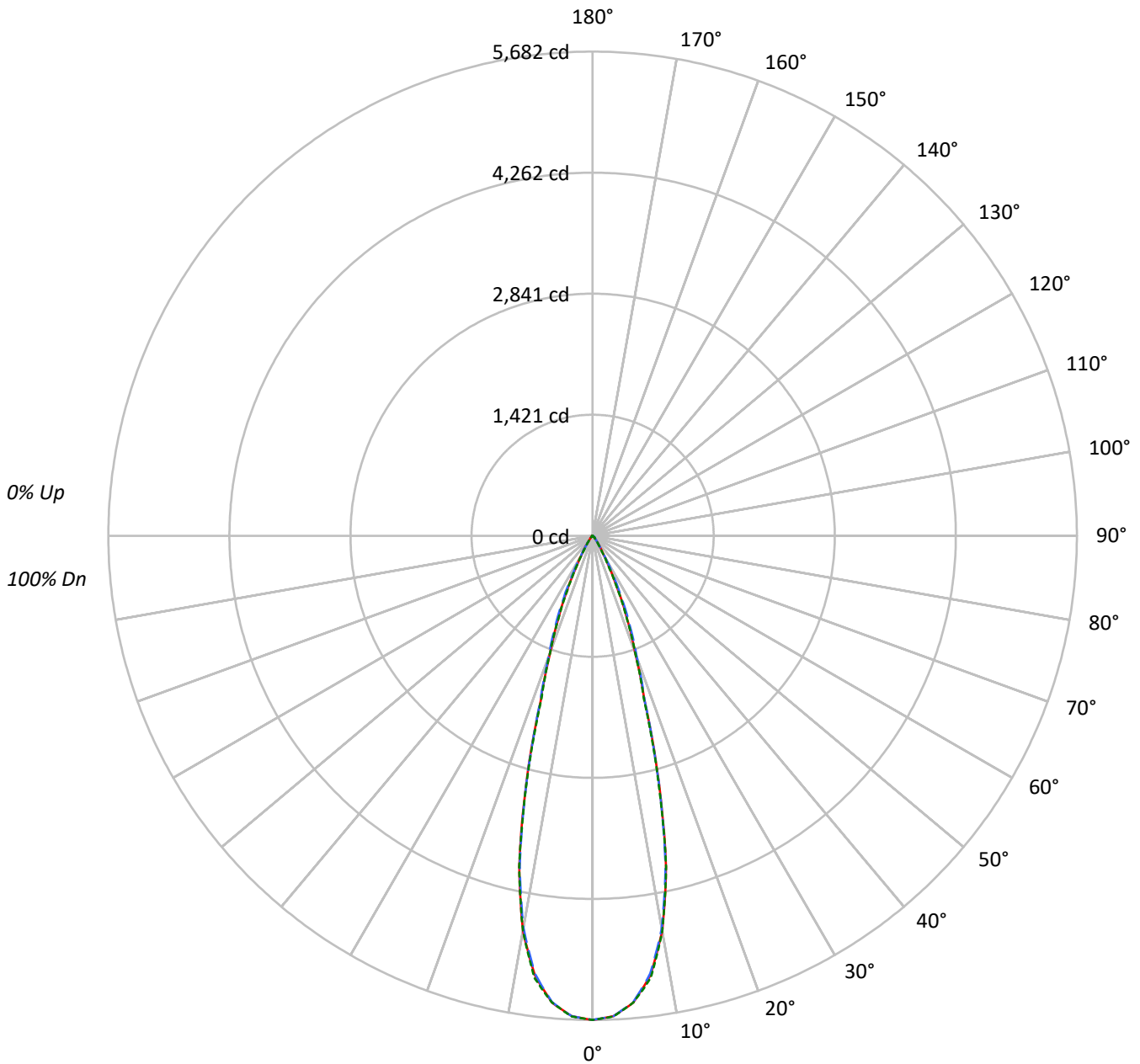
Downlight



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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°	434897	434897	434897
5°	422412	421921	422435
10°	365879	363291	365786
15°	238713	237430	236241
20°	118697	123161	118543
25°	59795	67421	58570
30°	23943	26082	20859
35°	11101	10634	8914
40°	4796	5326	4516
45°	3377	4200	3410
50°	1155	3060	1227
55°	667	1268	707
60°	475	551	475
65°	308	308	308
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4200 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.6	28.3
10°-20°	804.6	45.5
20°-30°	347.7	19.7
30°-40°	79.2	4.5
40°-50°	27.2	1.5
50°-60°	6.6	0.4
60°-70°	1.7	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°	1652.0	93.5
0°-40°	1731.2	98.0
0°-60°	1765.1	99.9
0°-90°	1767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5682	5682	5682	5682	5682	
5°	5498	5492	5491	5503	5498	500
15°	3012	2976	2996	2986	2981	807
25°	708	735	798	716	694	339
35°	119	121	114	113	95	81
45°	31	39	39	39	32	22
55°	5	5	10	6	5	5
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°	5681.7	5681.7	5681.7	5681.7	5681.7
2.5°	5644.1	5640.2	5642.4	5645.2	5646.3
5°	5497.6	5492.3	5491.2	5502.7	5497.9
7.5°	5202.2	5194.7	5183.3	5209.2	5233.4
10°	4707.4	4699.0	4674.1	4686.5	4706.2
12.5°	3976.8	3949.7	3949.2	3988.2	3982.9
15°	3012.4	2976.2	2996.2	2986.5	2981.2
17.5°	2025.8	2011.8	2038.6	2030.5	1995.6
20°	1457.2	1460.9	1512.0	1486.3	1455.3
22.5°	1063.4	1076.5	1137.0	1070.9	1046.6
25°	708.0	734.8	798.3	716.1	693.5
27.5°	435.4	447.7	512.2	429.9	417.6
30°	270.9	264.7	295.1	253.3	236.0
32.5°	177.7	169.9	179.6	161.2	147.3
35°	118.8	121.4	113.8	113.0	95.4
37.5°	74.2	85.4	75.3	80.3	61.4
40°	48.0	61.9	53.3	58.8	45.2
42.5°	39.3	47.7	43.8	46.6	40.2
45°	31.2	38.8	38.8	38.8	31.5
47.5°	17.3	26.0	33.2	26.5	18.4
50°	9.7	13.1	25.7	13.7	10.3
52.5°	6.7	7.5	17.6	7.8	7.0
55°	5.0	5.3	9.5	5.6	5.3
57.5°	3.9	4.2	5.0	4.2	3.9
60°	3.1	3.1	3.6	3.3	3.1
62.5°	2.2	2.2	2.5	2.2	2.2
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.9	1.1	1.1	1.1	1.1
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	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

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Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)