

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: P745041

Luminaire Tested: LD4D25D010-EU4DR3020359024-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745041  
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-EU4DR3020359024-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 1706.8 lumens  
Efficiency: N/A  
Efficacy: 68.0 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 (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



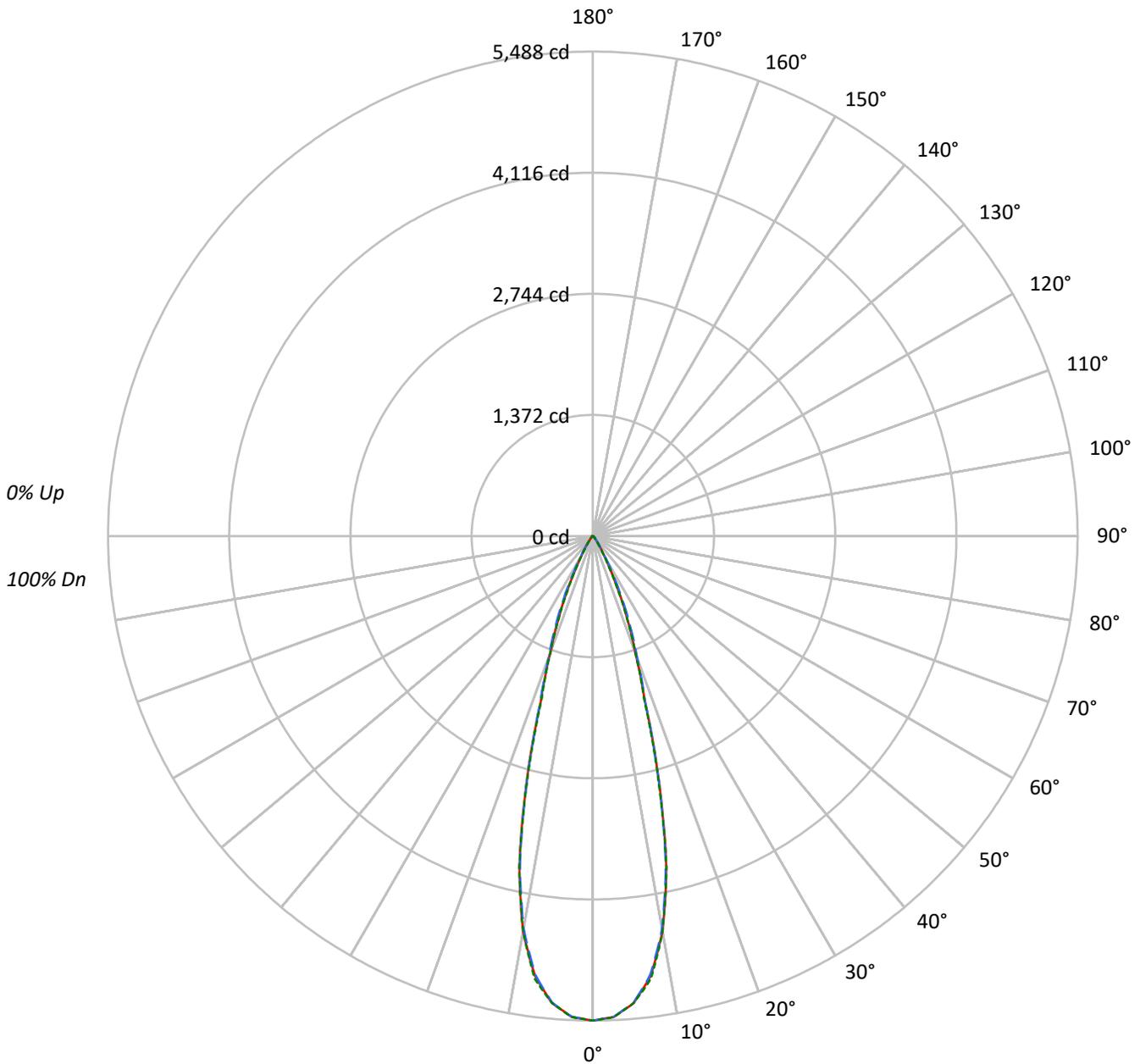
Downlight



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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	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°	420070	420070	420070
5°	408013	407537	408036
10°	353396	350909	353319
15°	230575	229339	228182
20°	114657	118958	114502
25°	57751	65124	56569
30°	23121	25190	20143
35°	10727	10269	8606
40°	4636	5146	4367
45°	3269	4059	3291
50°	1131	2953	1191
55°	654	1228	681
60°	459	536	459
65°	290	290	290
70°	179	112	179
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4059 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.6	28.3
10°-20°	777.2	45.5
20°-30°	335.9	19.7
30°-40°	76.5	4.5
40°-50°	26.3	1.5
50°-60°	6.4	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°	1595.7	93.5
0°-40°	1672.2	98.0
0°-60°	1704.9	99.9
0°-90°	1706.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5488	5488	5488	5488	5488	
5°	5310	5305	5304	5315	5310	483
15°	2910	2875	2894	2885	2880	779
25°	684	710	771	692	670	327
35°	115	117	110	109	92	78
45°	30	38	38	38	30	21
55°	5	5	9	5	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°	5488.0	5488.0	5488.0	5488.0	5488.0
2.5°	5451.6	5447.8	5450.0	5452.7	5453.8
5°	5310.2	5305.1	5304.0	5315.0	5310.5
7.5°	5024.8	5017.6	5006.5	5031.6	5055.0
10°	4546.8	4538.7	4514.8	4526.7	4545.8
12.5°	3841.2	3815.1	3814.5	3852.2	3847.1
15°	2909.7	2874.7	2894.1	2884.6	2879.5
17.5°	1956.7	1943.2	1969.1	1961.3	1927.6
20°	1407.6	1411.1	1460.4	1435.6	1405.7
22.5°	1027.1	1039.8	1098.2	1034.4	1011.0
25°	683.8	709.7	771.1	691.7	669.8
27.5°	420.6	432.5	494.7	415.2	403.4
30°	261.6	255.7	285.0	244.6	227.9
32.5°	171.7	164.1	173.5	155.7	142.3
35°	114.8	117.2	109.9	109.1	92.1
37.5°	71.7	82.4	72.8	77.6	59.3
40°	46.4	59.8	51.5	56.8	43.7
42.5°	38.0	46.1	42.3	45.0	38.8
45°	30.2	37.5	37.5	37.5	30.4
47.5°	16.7	25.0	32.1	25.6	17.8
50°	9.5	12.7	24.8	13.2	10.0
52.5°	6.5	7.3	17.0	7.6	6.8
55°	4.9	5.1	9.2	5.4	5.1
57.5°	3.8	4.1	4.9	4.1	3.8
60°	3.0	3.0	3.5	3.2	3.0
62.5°	2.2	2.2	2.4	2.2	2.2
65°	1.6	1.6	1.6	1.6	1.6
67.5°	0.8	1.1	1.1	1.1	1.1
70°	0.8	0.5	0.5	0.5	0.8
72.5°	0.5	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)