

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: P745079

Luminaire Tested: LD4D25D010-EU4DR3020359035-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745079  
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-EU4DR3020359035-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1865.4 lumens  
Efficiency: N/A  
Efficacy: 74.3 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



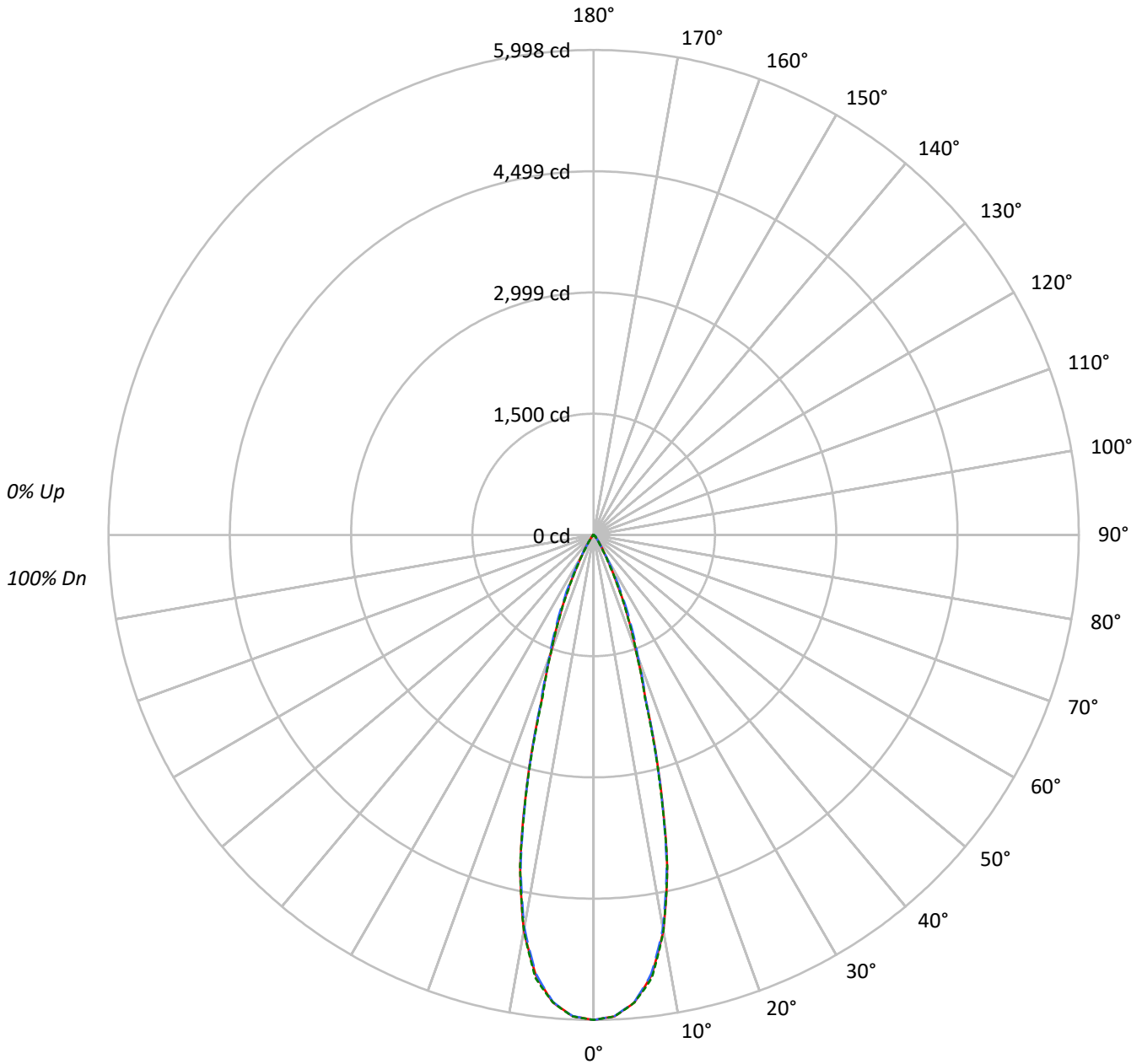
Downlight



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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°	459115	459115	459115
5°	445932	445409	445955
10°	386243	383522	386157
15°	252010	250655	249395
20°	125312	130012	125141
25°	63123	71180	61830
30°	25278	27541	22017
35°	11727	11222	9410
40°	5056	5626	4766
45°	3572	4427	3605
50°	1227	3227	1298
55°	707	1334	747
60°	505	582	505
65°	326	326	326
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: 4427 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.4	28.3
10°-20°	849.4	45.5
20°-30°	367.1	19.7
30°-40°	83.7	4.5
40°-50°	28.7	1.5
50°-60°	7.0	0.4
60°-70°	1.8	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°	1744.0	93.5
0°-40°	1827.6	98.0
0°-60°	1863.4	99.9
0°-90°	1865.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5998	5998	5998	5998	5998	
5°	5804	5798	5797	5809	5804	528
15°	3180	3142	3163	3153	3147	852
25°	747	776	843	756	732	358
35°	126	128	120	119	101	85
45°	33	41	41	41	33	23
55°	5	6	10	6	6	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°	5998.1	5998.1	5998.1	5998.1	5998.1
2.5°	5958.3	5954.2	5956.6	5959.5	5960.7
5°	5803.7	5798.1	5796.9	5809.0	5804.0
7.5°	5491.8	5483.9	5471.9	5499.2	5524.9
10°	4969.4	4960.6	4934.4	4947.4	4968.3
12.5°	4198.2	4169.6	4169.0	4210.3	4204.7
15°	3180.2	3141.9	3163.1	3152.8	3147.2
17.5°	2138.5	2123.8	2152.1	2143.6	2106.7
20°	1538.4	1542.2	1596.1	1569.0	1536.3
22.5°	1122.6	1136.4	1200.3	1130.5	1104.9
25°	747.4	775.7	842.8	756.0	732.1
27.5°	459.7	472.6	540.7	453.8	440.8
30°	286.0	279.5	311.6	267.4	249.1
32.5°	187.6	179.3	189.6	170.2	155.5
35°	125.5	128.1	120.1	119.3	100.7
37.5°	78.3	90.1	79.5	84.8	64.8
40°	50.6	65.4	56.3	62.1	47.7
42.5°	41.5	50.4	46.2	49.2	42.4
45°	33.0	40.9	40.9	40.9	33.3
47.5°	18.3	27.4	35.1	28.0	19.4
50°	10.3	13.9	27.1	14.4	10.9
52.5°	7.0	8.0	18.6	8.3	7.3
55°	5.3	5.6	10.0	5.9	5.6
57.5°	4.1	4.4	5.3	4.4	4.1
60°	3.3	3.3	3.8	3.6	3.3
62.5°	2.3	2.3	2.6	2.3	2.3
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.2	1.2	1.2	1.2
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)