

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: P745045

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745045  
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-EU4DR3020359027-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1814.3 lumens  
Efficiency: N/A  
Efficacy: 72.3 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 (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

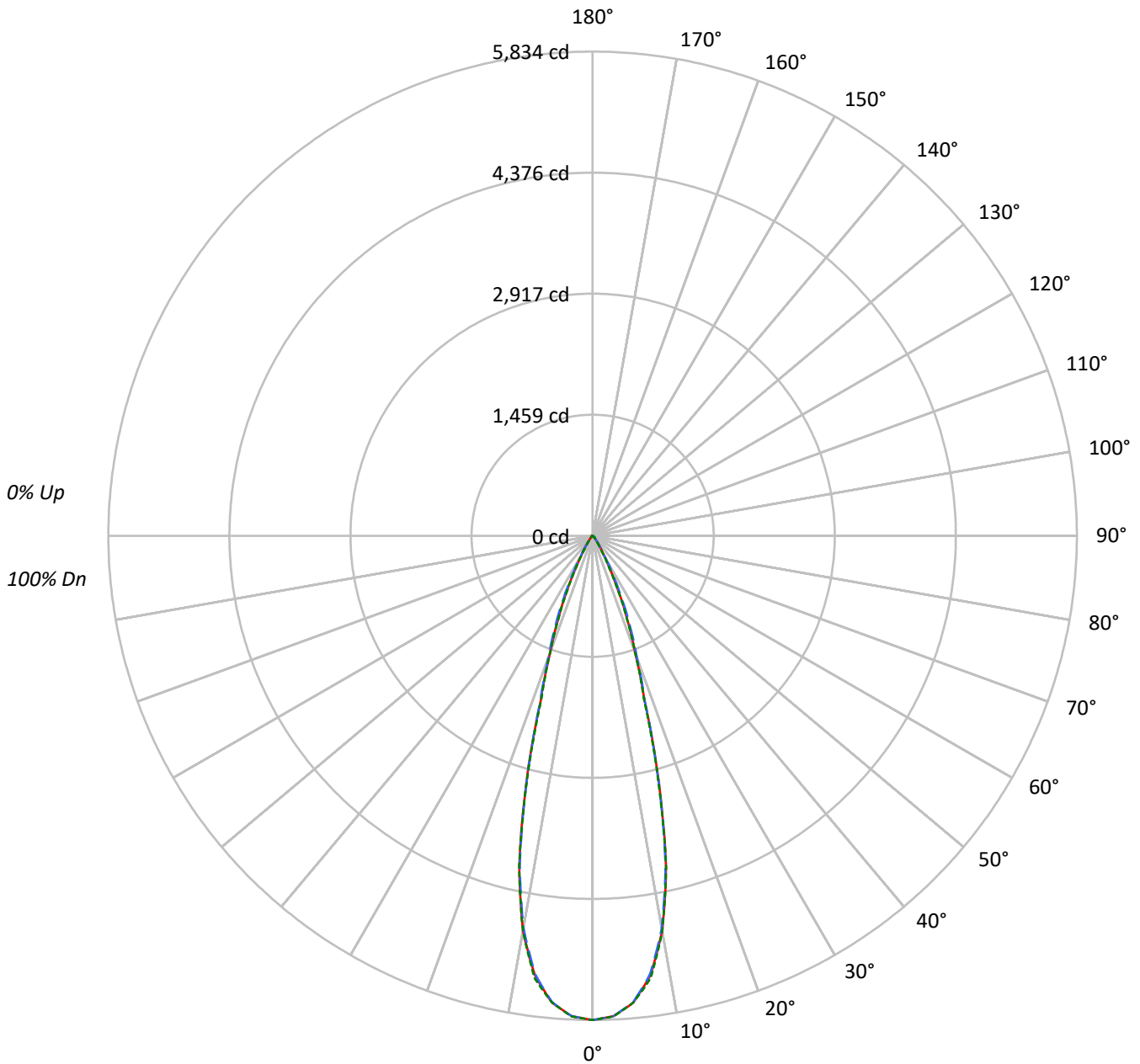


Downlight



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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	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°	446539	446539	446539
5°	433723	433215	433746
10°	375672	373022	375579
15°	245108	243793	242565
20°	121882	126452	121719
25°	61400	69229	60141
30°	24580	26781	21416
35°	11400	10923	9157
40°	4926	5466	4636
45°	3475	4308	3507
50°	1191	3144	1262
55°	694	1294	721
60°	490	566	490
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: 4308 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.0	28.3
10°-20°	826.2	45.5
20°-30°	357.0	19.7
30°-40°	81.4	4.5
40°-50°	27.9	1.5
50°-60°	6.8	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°	1696.2	93.5
0°-40°	1777.6	98.0
0°-60°	1812.3	99.9
0°-90°	1814.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1814.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5834	5834	5834	5834	5834	
5°	5645	5639	5638	5650	5645	513
15°	3093	3056	3076	3066	3061	828
25°	727	754	820	735	712	348
35°	122	125	117	116	98	83
45°	32	40	40	40	32	23
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°	5833.8	5833.8	5833.8	5833.8	5833.8
2.5°	5795.2	5791.2	5793.4	5796.3	5797.5
5°	5644.8	5639.3	5638.2	5649.9	5645.1
7.5°	5341.4	5333.7	5322.0	5348.6	5373.5
10°	4833.4	4824.8	4799.3	4811.9	4832.2
12.5°	4083.2	4055.4	4054.8	4094.9	4089.5
15°	3093.1	3055.8	3076.5	3066.4	3061.0
17.5°	2080.0	2065.7	2093.2	2084.9	2049.0
20°	1496.3	1500.0	1552.4	1526.1	1494.3
22.5°	1091.8	1105.3	1167.4	1099.5	1074.6
25°	727.0	754.4	819.7	735.3	712.1
27.5°	447.1	459.7	525.9	441.4	428.8
30°	278.1	271.8	303.0	260.1	242.3
32.5°	182.4	174.4	184.4	165.5	151.2
35°	122.0	124.6	116.9	116.0	98.0
37.5°	76.2	87.7	77.3	82.5	63.0
40°	49.3	63.6	54.7	60.4	46.4
42.5°	40.4	49.0	45.0	47.8	41.3
45°	32.1	39.8	39.8	39.8	32.4
47.5°	17.8	26.6	34.1	27.2	18.9
50°	10.0	13.5	26.4	14.0	10.6
52.5°	6.9	7.7	18.0	8.0	7.2
55°	5.2	5.4	9.7	5.7	5.4
57.5°	4.0	4.3	5.2	4.3	4.0
60°	3.2	3.2	3.7	3.4	3.2
62.5°	2.3	2.3	2.6	2.3	2.3
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

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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(END OF REPORT)