

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: P745032

Luminaire Tested: LD4D25D010-EU4DR3020359024-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745032  
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-EU4DR3020359024-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1634.4 lumens  
Efficiency: N/A  
Efficacy: 65.1 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

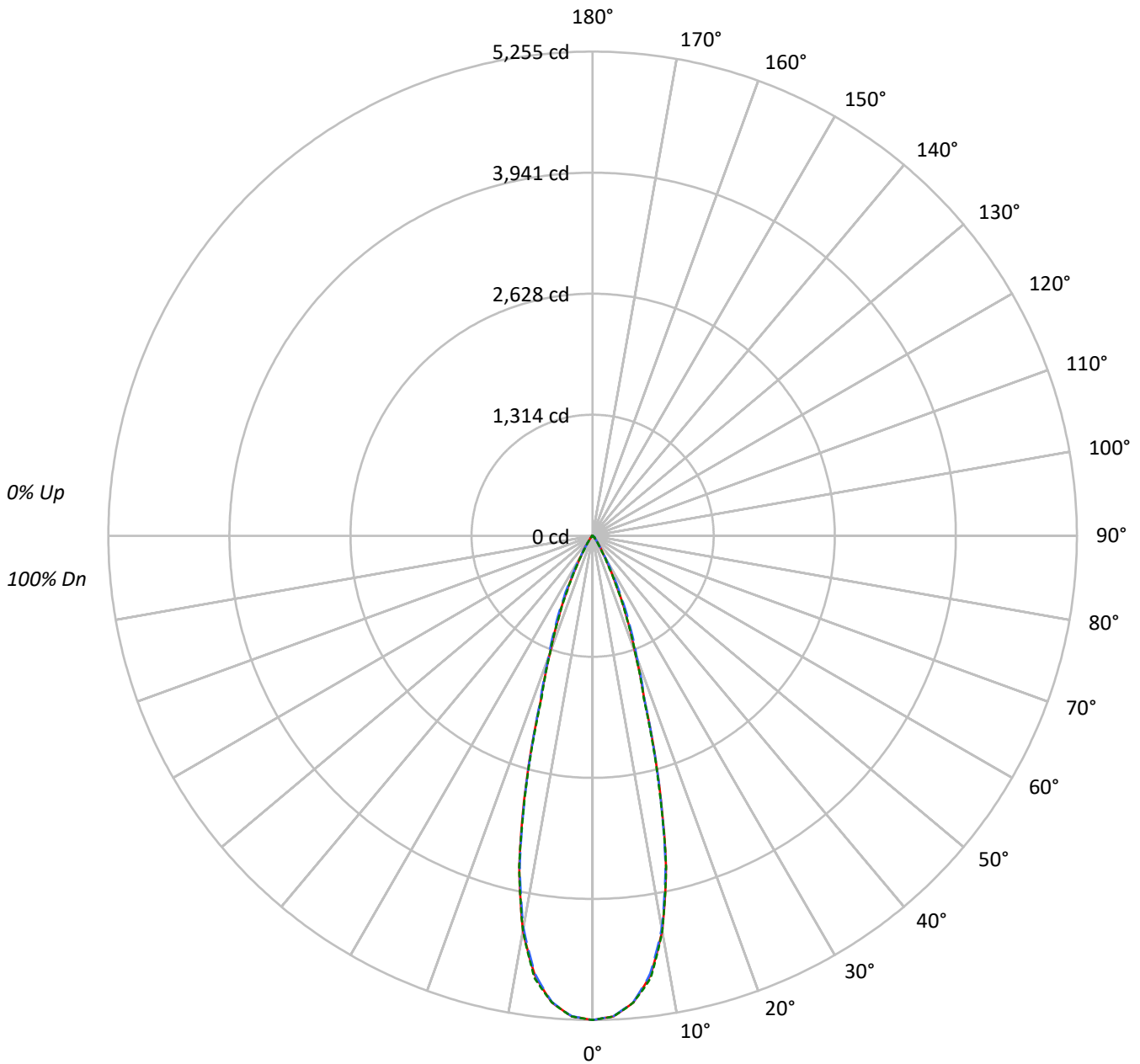


Downlight



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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°	402259	402259	402259
5°	390710	390257	390733
10°	338419	336033	338341
15°	220796	219616	218506
20°	109794	113916	109648
25°	55302	62371	54170
30°	22149	24129	19294
35°	10269	9839	8242
40°	4436	4926	4177
45°	3128	3886	3161
50°	1084	2822	1143
55°	614	1174	654
60°	444	520	444
65°	272	272	272
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: 3886 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.1	28.3
10°-20°	744.3	45.5
20°-30°	321.6	19.7
30°-40°	73.3	4.5
40°-50°	25.2	1.5
50°-60°	6.2	0.4
60°-70°	1.6	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°	1528.0	93.5
0°-40°	1601.3	98.0
0°-60°	1632.6	99.9
0°-90°	1634.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5255	5255	5255	5255	5255	
5°	5085	5080	5079	5090	5085	463
15°	2786	2753	2771	2762	2757	746
25°	655	680	738	662	641	313
35°	110	112	105	104	88	75
45°	29	36	36	36	29	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°	5255.3	5255.3	5255.3	5255.3	5255.3
2.5°	5220.5	5216.9	5219.0	5221.5	5222.6
5°	5085.0	5080.1	5079.1	5089.6	5085.3
7.5°	4811.8	4804.8	4794.2	4818.2	4840.7
10°	4354.1	4346.3	4323.4	4334.7	4353.1
12.5°	3678.3	3653.3	3652.7	3688.9	3684.0
15°	2786.3	2752.8	2771.4	2762.4	2757.4
17.5°	1873.7	1860.8	1885.6	1878.1	1845.9
20°	1347.9	1351.2	1398.5	1374.7	1346.1
22.5°	983.6	995.7	1051.7	990.5	968.1
25°	654.8	679.6	738.5	662.3	641.4
27.5°	402.8	414.1	473.7	397.6	386.2
30°	250.6	244.9	273.0	234.3	218.3
32.5°	164.4	157.2	166.2	149.1	136.2
35°	109.9	112.2	105.3	104.5	88.2
37.5°	68.6	79.0	69.7	74.3	56.8
40°	44.4	57.3	49.3	54.4	41.8
42.5°	36.4	44.1	40.5	43.1	37.1
45°	28.9	35.9	35.9	35.9	29.2
47.5°	16.0	24.0	30.7	24.5	17.0
50°	9.1	12.1	23.7	12.7	9.6
52.5°	6.2	7.0	16.3	7.2	6.5
55°	4.6	4.9	8.8	5.2	4.9
57.5°	3.6	3.9	4.6	3.9	3.6
60°	2.9	2.9	3.4	3.1	2.9
62.5°	2.1	2.1	2.3	2.1	2.1
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.8	1.0	1.0	1.0	1.0
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)