

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: P744802

Luminaire Tested: LD4D25D010-EU4DR1515309024-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D25D010-EU4DR1515309024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2074.3 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
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

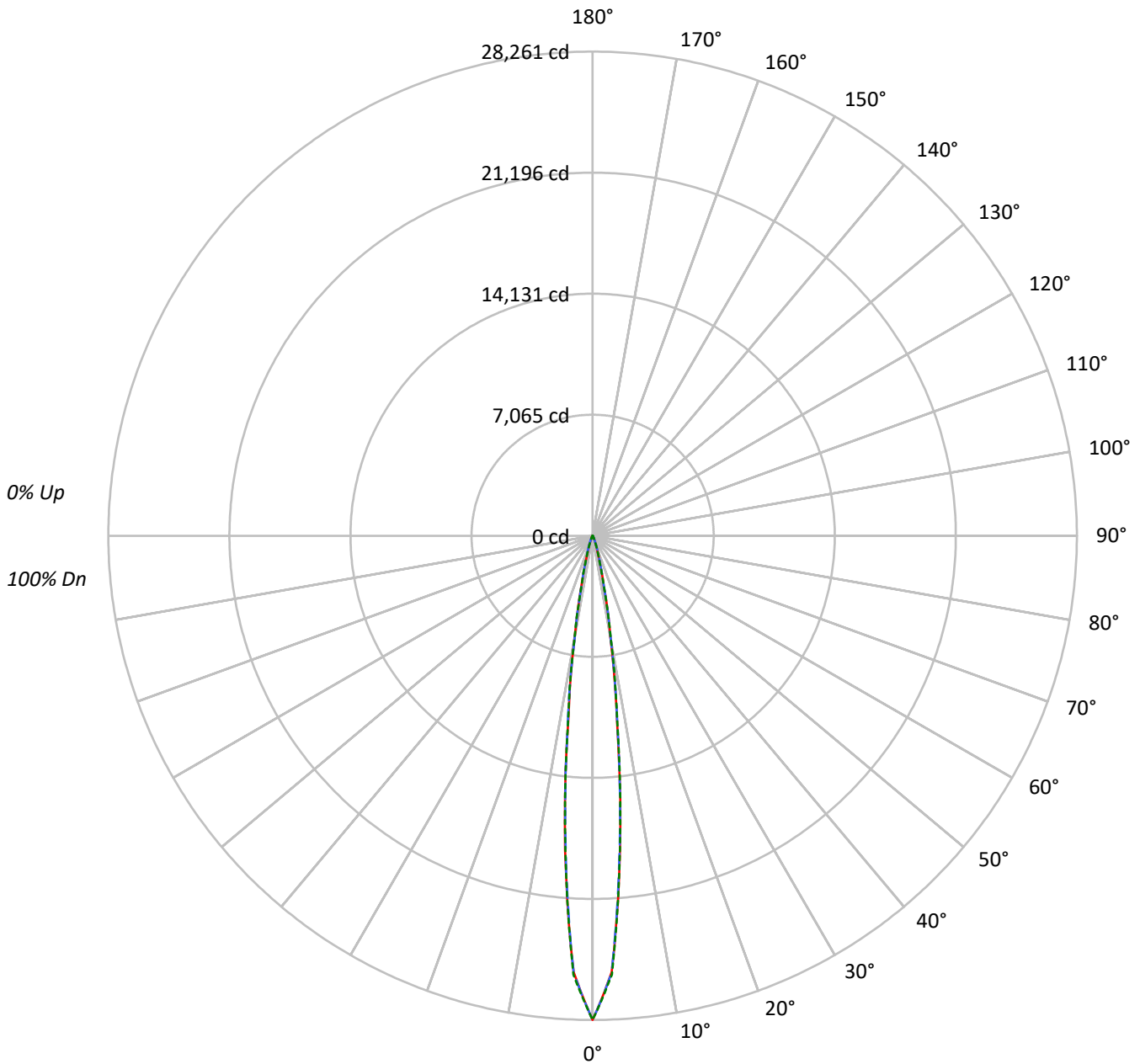


Downlight



TEST NUMBER: P744802  
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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					70					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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98								
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96								
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94								
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93								
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92								
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90								
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89								
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88								
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87								
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3179893	3179893	3179893
5°	1868661	1844463	1859057
10°	557709	561618	570212
15°	138728	141429	137060
20°	41509	48063	42384
25°	14630	18642	14817
30°	5376	7076	5466
35°	2694	3043	2607
40°	1697	1868	1697
45°	1253	1337	1253
50°	1001	1001	1001
55°	835	835	835
60°	674	674	674
65°	514	514	514
70°	439	439	439
75°	272	272	363
80°	189	189	189
85°	100	100	100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1337 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1345.3	64.9
10°-20°	553.3	26.7
20°-30°	109.9	5.3
30°-40°	27.4	1.3
40°-50°	14.4	0.7
50°-60°	10.7	0.5
60°-70°	7.6	0.4
70°-80°	4.3	0.2
80°-90°	1.3	0.1
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°	2008.5	96.8
0°-40°	2036.0	98.2
0°-60°	2061.1	99.4
0°-90°	2074.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28261	28261	28261	28261	28261	
5°	18387	18198	18149	18275	18293	1343
15°	1597	1627	1628	1600	1578	548
25°	188	213	239	212	190	99
35°	37	40	42	40	36	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	5	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	28260.7	28260.7	28260.7	28260.7	28260.7
2.5°	25492.3	25513.9	25522.2	25547.4	25640.7
5°	18387.1	18198.0	18149.0	18274.6	18292.6
7.5°	10891.8	10930.1	11070.0	11101.2	10988.7
10°	5977.1	6026.1	6019.0	6062.0	6111.1
12.5°	3056.7	3018.5	3006.5	3055.5	2987.3
15°	1597.2	1627.1	1628.3	1599.6	1578.0
17.5°	859.0	893.7	951.1	904.5	832.7
20°	507.3	538.4	587.4	549.1	518.0
22.5°	313.4	338.6	373.3	343.4	318.2
25°	187.8	213.0	239.3	211.8	190.2
27.5°	111.3	132.8	149.5	131.6	110.1
30°	71.8	83.7	94.5	82.5	73.0
32.5°	50.2	55.0	59.8	55.0	50.2
35°	37.1	39.5	41.9	39.5	35.9
37.5°	28.7	31.1	32.3	29.9	27.5
40°	23.9	25.1	26.3	25.1	23.9
42.5°	20.3	21.5	21.5	21.5	20.3
45°	17.9	17.9	19.1	17.9	17.9
47.5°	15.6	15.6	16.7	15.6	15.6
50°	14.4	14.4	14.4	14.4	14.4
52.5°	13.2	13.2	13.2	13.2	13.2
55°	12.0	12.0	12.0	12.0	12.0
57.5°	10.8	10.8	10.8	10.8	10.8
60°	9.6	9.6	9.6	9.6	9.6
62.5°	8.4	8.4	8.4	8.4	8.4
65°	7.2	7.2	7.2	7.2	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	6.0	6.0	6.0	6.0	6.0
72.5°	4.8	4.8	4.8	4.8	4.8
75°	3.6	3.6	3.6	3.6	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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)