

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: P745060

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745060  
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-EU4DR3020359030-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2443.2 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

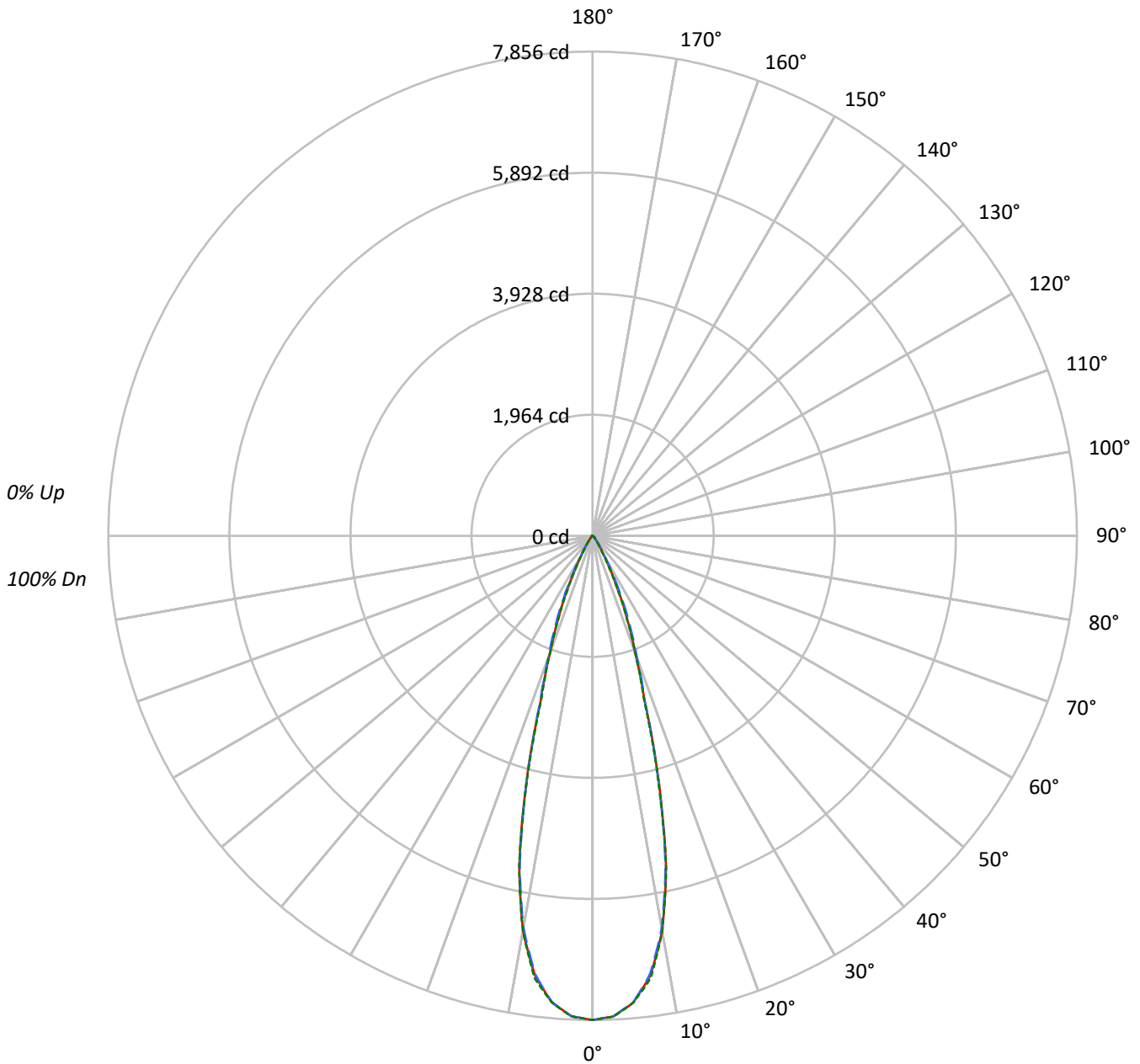


Downlight



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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	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°	601333	601333	601333
5°	584075	583391	584106
10°	505899	502324	505775
15°	330073	328298	326650
20°	164133	170283	163913
25°	82674	93231	80985
30°	33100	36070	28840
35°	15353	14708	12325
40°	6625	7364	6245
45°	4676	5802	4720
50°	1608	4227	1703
55°	921	1748	974
60°	643	765	643
65°	417	417	417
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5802 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.8	28.3
10°-20°	1112.6	45.5
20°-30°	480.8	19.7
30°-40°	109.6	4.5
40°-50°	37.6	1.5
50°-60°	9.2	0.4
60°-70°	2.4	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°	2284.2	93.5
0°-40°	2393.8	98.0
0°-60°	2440.6	99.9
0°-90°	2443.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7856	7856	7856	7856	7856	
5°	7602	7594	7593	7608	7602	691
15°	4165	4115	4143	4129	4122	1115
25°	979	1016	1104	990	959	469
35°	164	168	157	156	132	111
45°	43	54	54	54	44	31
55°	7	7	13	8	7	7
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7856.1	7856.1	7856.1	7856.1	7856.1
2.5°	7804.1	7798.7	7801.8	7805.7	7807.1
5°	7601.6	7594.2	7592.7	7608.5	7602.0
7.5°	7193.1	7182.7	7166.9	7202.7	7236.3
10°	6508.9	6497.3	6462.9	6480.0	6507.3
12.5°	5498.7	5461.3	5460.5	5514.5	5507.2
15°	4165.3	4115.2	4142.9	4129.4	4122.1
17.5°	2801.0	2781.7	2818.7	2807.6	2759.4
20°	2015.0	2019.9	2090.5	2055.1	2012.3
22.5°	1470.3	1488.5	1572.2	1480.7	1447.2
25°	978.9	1016.0	1103.9	990.1	958.9
27.5°	602.1	619.1	708.2	594.4	577.4
30°	374.5	366.1	408.1	350.2	326.3
32.5°	245.7	234.9	248.4	222.9	203.6
35°	164.3	167.8	157.4	156.2	131.9
37.5°	102.6	118.0	104.2	111.1	84.9
40°	66.3	85.7	73.7	81.4	62.5
42.5°	54.4	65.9	60.6	64.4	55.5
45°	43.2	53.6	53.6	53.6	43.6
47.5°	23.9	35.9	45.9	36.7	25.4
50°	13.5	18.1	35.5	18.9	14.3
52.5°	9.3	10.4	24.3	10.8	9.6
55°	6.9	7.3	13.1	7.7	7.3
57.5°	5.4	5.8	6.9	5.8	5.4
60°	4.2	4.2	5.0	4.6	4.2
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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)