

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: P744109

Luminaire Tested: LD4D20D010-EU4DR3020359027-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744109  
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: LD4D20D010-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: 1404.0 lumens  
Efficiency: N/A  
Efficacy: 60.8 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): 23.1  
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

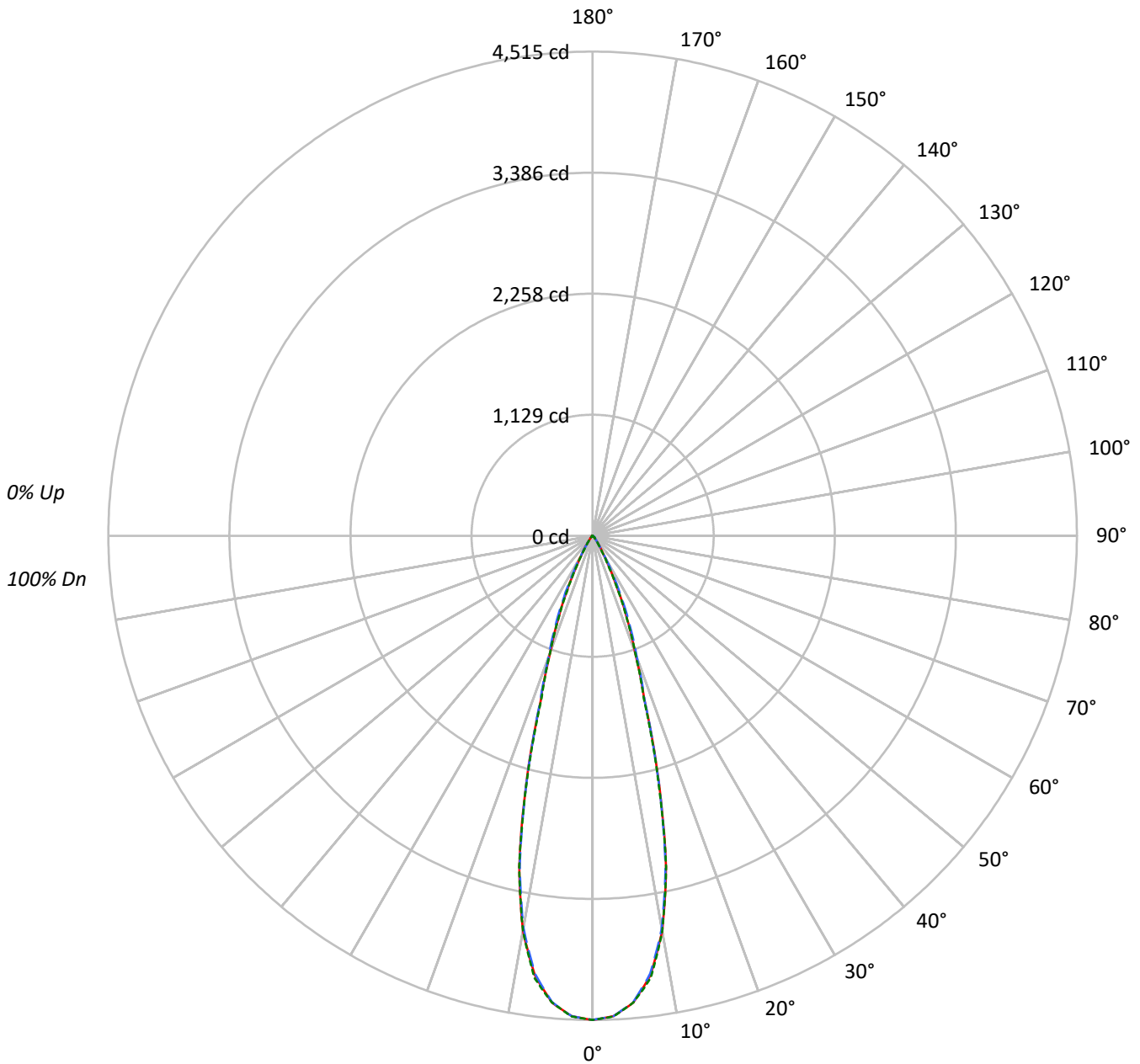


Downlight



TEST NUMBER: P744109  
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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°	345563	345563	345563
5°	335642	335250	335657
10°	290712	288668	290650
15°	189677	188655	187712
20°	94318	97861	94187
25°	47507	53579	46535
30°	19020	20726	16572
35°	8821	8447	7083
40°	3807	4227	3587
45°	2685	3334	2706
50°	917	2429	976
55°	534	1014	560
60°	383	444	383
65°	235	235	235
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3334 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.0	28.3
10°-20°	639.4	45.5
20°-30°	276.3	19.7
30°-40°	63.0	4.5
40°-50°	21.6	1.5
50°-60°	5.3	0.4
60°-70°	1.4	0.1
70°-80°	0.1	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°	1312.6	93.5
0°-40°	1375.6	98.0
0°-60°	1402.5	99.9
0°-90°	1404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4515	4515	4515	4515	4515	
5°	4368	4364	4363	4372	4368	397
15°	2394	2365	2381	2373	2369	641
25°	562	584	634	569	551	269
35°	94	96	90	90	76	64
45°	25	31	31	31	25	18
55°	4	4	8	4	4	4
65°	1	1	1	1	1	1
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°	4514.6	4514.6	4514.6	4514.6	4514.6
2.5°	4484.7	4481.5	4483.3	4485.5	4486.4
5°	4368.3	4364.1	4363.2	4372.2	4368.5
7.5°	4133.6	4127.5	4118.5	4139.1	4158.4
10°	3740.3	3733.7	3714.0	3723.7	3739.5
12.5°	3159.8	3138.3	3137.9	3168.9	3164.7
15°	2393.6	2364.8	2380.7	2373.0	2368.8
17.5°	1609.6	1598.5	1619.8	1613.4	1585.7
20°	1157.9	1160.8	1201.4	1181.0	1156.3
22.5°	844.9	855.4	903.4	850.9	831.6
25°	562.5	583.8	634.4	569.0	551.0
27.5°	346.0	355.7	407.0	341.5	331.8
30°	215.2	210.3	234.5	201.3	187.5
32.5°	141.2	135.0	142.7	128.1	117.1
35°	94.4	96.4	90.4	89.8	75.8
37.5°	59.0	67.8	59.9	63.8	48.8
40°	38.1	49.2	42.3	46.8	35.9
42.5°	31.2	37.9	34.8	37.0	31.9
45°	24.8	30.8	30.8	30.8	25.0
47.5°	13.8	20.6	26.4	21.1	14.6
50°	7.7	10.4	20.4	10.9	8.2
52.5°	5.3	6.0	14.0	6.2	5.6
55°	4.0	4.2	7.6	4.4	4.2
57.5°	3.1	3.3	4.0	3.3	3.1
60°	2.5	2.5	2.9	2.6	2.5
62.5°	1.8	1.8	2.0	1.8	1.8
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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)