

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: P742115

Luminaire Tested: LD4D10D010-EU4DR300210IC9027-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742115  
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: LD4D10D010-EU4DR300210IC9027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 992.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 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): 11.7  
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



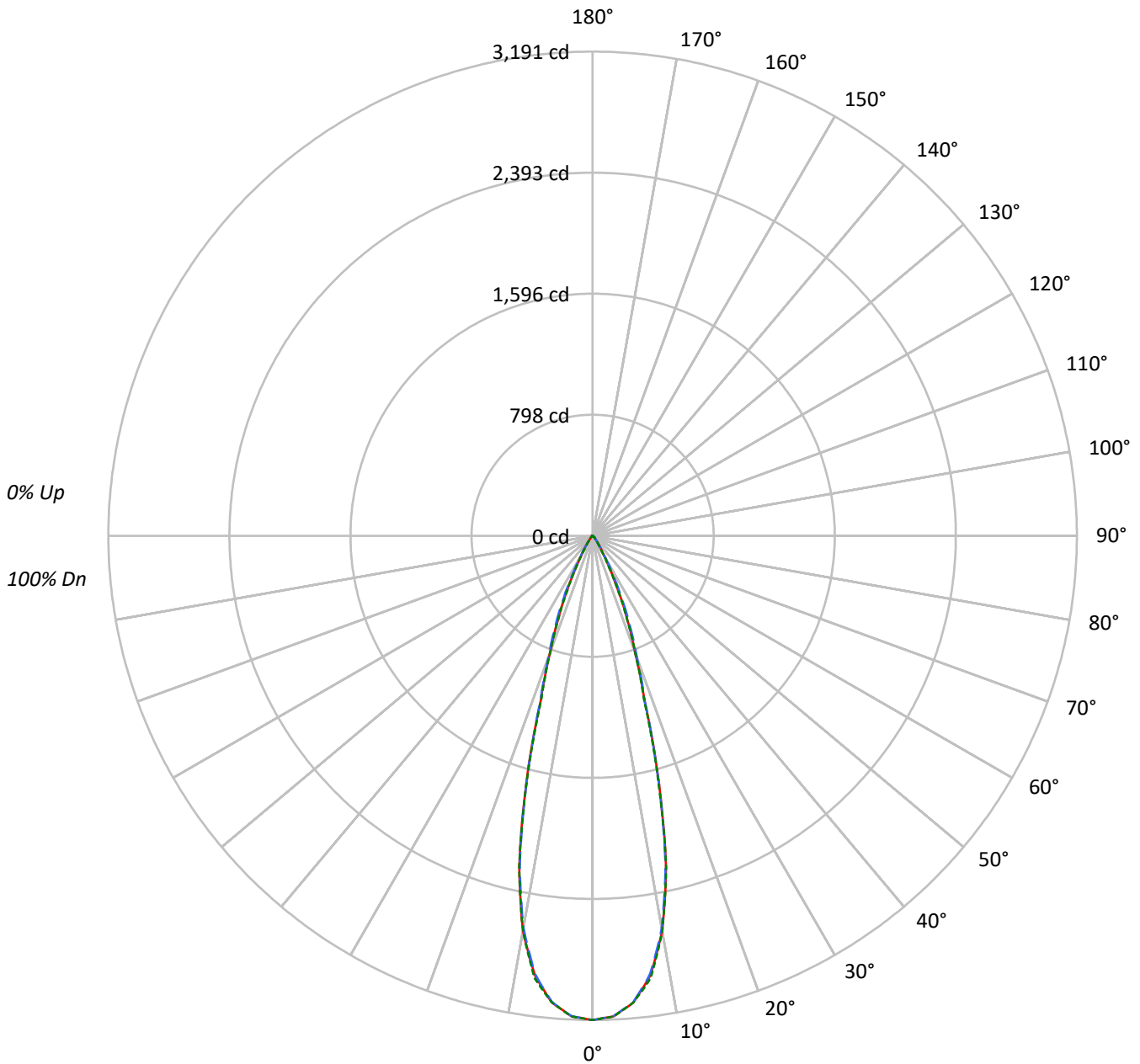
Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

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

	0°	45°	90°
0°	244250	244250	244250
5°	237238	236962	237254
10°	205487	204034	205433
15°	134072	133351	132677
20°	66672	69172	66574
25°	33580	37870	32896
30°	13443	14654	11711
35°	6233	5971	5009
40°	2688	2988	2538
45°	1894	2360	1916
50°	655	1715	691
55°	374	707	400
60°	260	321	260
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2360 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.6	28.3
10°-20°	451.9	45.5
20°-30°	195.3	19.7
30°-40°	44.5	4.5
40°-50°	15.3	1.5
50°-60°	3.7	0.4
60°-70°	1.0	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°	927.8	93.5
0°-40°	972.3	98.0
0°-60°	991.3	99.9
0°-90°	992.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3191	3191	3191	3191	3191	
5°	3088	3085	3084	3090	3088	281
15°	1692	1672	1683	1677	1674	453
25°	398	413	448	402	390	190
35°	67	68	64	63	54	45
45°	18	22	22	22	18	12
55°	3	3	5	3	3	3
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°	3191.0	3191.0	3191.0	3191.0	3191.0
2.5°	3169.9	3167.7	3168.9	3170.5	3171.1
5°	3087.6	3084.7	3084.0	3090.4	3087.8
7.5°	2921.7	2917.5	2911.0	2925.6	2939.2
10°	2643.8	2639.1	2625.1	2632.0	2643.1
12.5°	2233.5	2218.3	2217.9	2239.9	2236.9
15°	1691.9	1671.5	1682.8	1677.3	1674.3
17.5°	1137.7	1129.9	1144.9	1140.4	1120.8
20°	818.5	820.5	849.2	834.7	817.3
22.5°	597.2	604.6	638.6	601.4	587.8
25°	397.6	412.6	448.4	402.2	389.5
27.5°	244.5	251.5	287.6	241.4	234.5
30°	152.1	148.7	165.8	142.3	132.5
32.5°	99.8	95.4	100.9	90.5	82.7
35°	66.7	68.1	63.9	63.4	53.6
37.5°	41.7	48.0	42.3	45.1	34.5
40°	26.9	34.8	29.9	33.1	25.4
42.5°	22.1	26.8	24.6	26.2	22.6
45°	17.5	21.8	21.8	21.8	17.7
47.5°	9.7	14.6	18.6	14.9	10.3
50°	5.5	7.4	14.4	7.7	5.8
52.5°	3.8	4.2	9.9	4.4	3.9
55°	2.8	3.0	5.3	3.2	3.0
57.5°	2.2	2.3	2.8	2.3	2.2
60°	1.7	1.7	2.1	1.9	1.7
62.5°	1.3	1.3	1.4	1.3	1.3
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	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

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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