

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: P745983

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745983  
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: LD4D30D010-EU4DR3020359027-4LBDP1LI  
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: 2659.5 lumens  
Efficiency: N/A  
Efficacy: 91.7 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): 29  
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

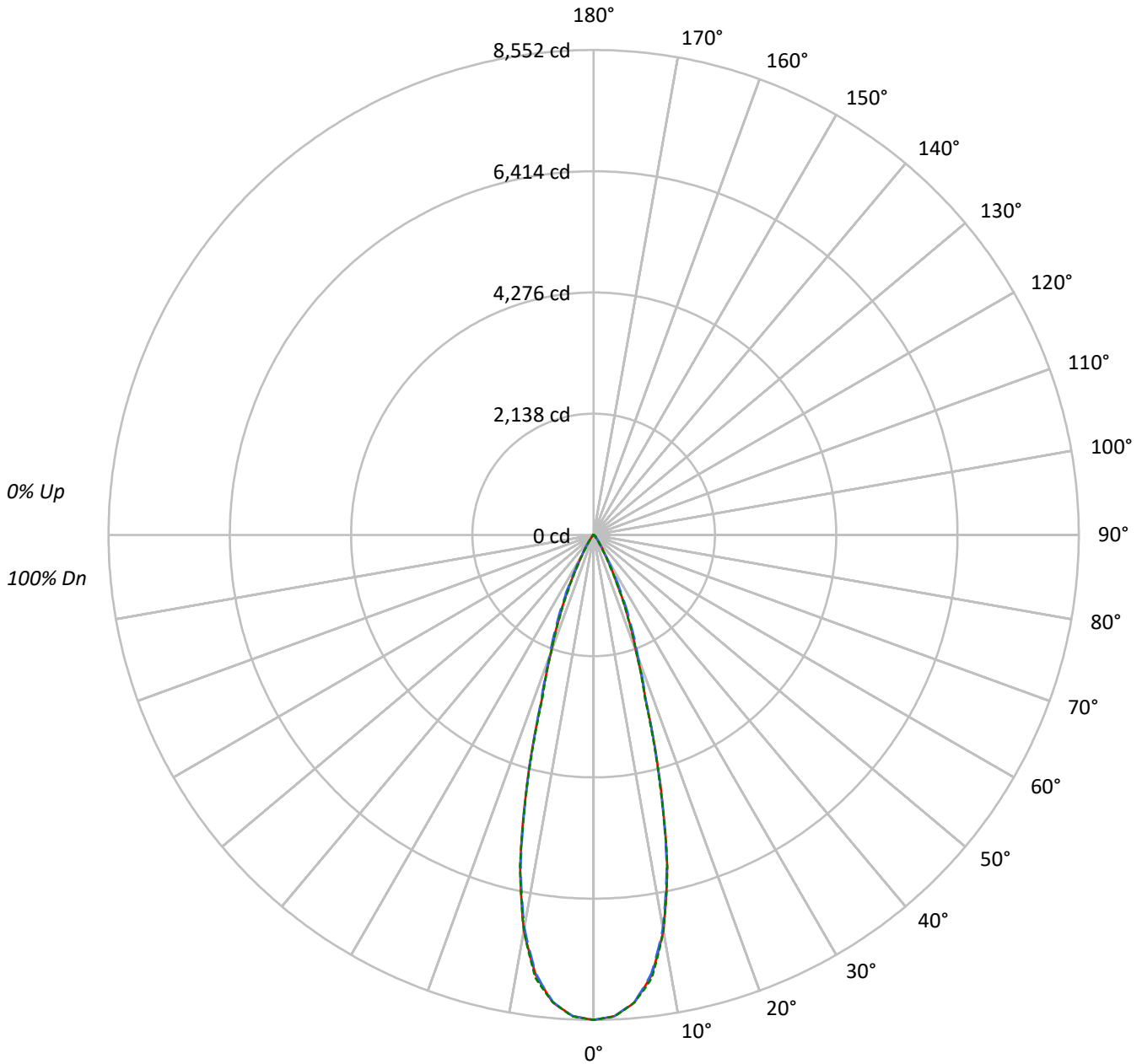


Downlight



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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	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°	654569	654569	654569
5°	635778	635032	635808
10°	550684	546798	550544
15°	359290	357357	355558
20°	178657	185361	178421
25°	89997	101483	88147
30°	36034	39260	31394
35°	16717	16007	13418
40°	7214	8014	6795
45°	5088	6322	5131
50°	1750	4597	1846
55°	1014	1908	1068
60°	704	827	704
65°	453	453	453
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6322 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.0	28.3
10°-20°	1211.1	45.5
20°-30°	523.3	19.7
30°-40°	119.3	4.5
40°-50°	41.0	1.5
50°-60°	10.0	0.4
60°-70°	2.6	0.1
70°-80°	0.3	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°	2486.4	93.5
0°-40°	2605.7	98.0
0°-60°	2656.6	99.9
0°-90°	2659.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8552	8552	8552	8552	8552	
5°	8274	8266	8265	8282	8275	753
15°	4534	4479	4510	4495	4487	1214
25°	1066	1106	1202	1078	1044	510
35°	179	183	171	170	144	121
45°	47	58	58	58	47	33
55°	8	8	14	8	8	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8551.6	8551.6	8551.6	8551.6	8551.6
2.5°	8494.9	8489.0	8492.4	8496.6	8498.2
5°	8274.5	8266.5	8264.8	8282.1	8274.9
7.5°	7829.8	7818.5	7801.3	7840.4	7876.9
10°	7085.1	7072.4	7035.1	7053.5	7083.3
12.5°	5985.4	5944.7	5943.8	6002.6	5994.7
15°	4534.0	4479.4	4509.6	4495.0	4486.9
17.5°	3049.0	3028.0	3068.3	3056.1	3003.6
20°	2193.3	2198.8	2275.6	2237.0	2190.4
22.5°	1600.5	1620.2	1711.3	1611.8	1575.3
25°	1065.6	1105.9	1201.6	1077.8	1043.7
27.5°	655.4	673.8	770.8	647.0	628.5
30°	407.7	398.4	444.2	381.2	355.2
32.5°	267.5	255.7	270.4	242.7	221.7
35°	178.9	182.7	171.3	170.1	143.6
37.5°	111.7	128.5	113.4	120.9	92.4
40°	72.2	93.2	80.2	88.6	68.0
42.5°	59.2	71.8	65.9	70.1	60.4
45°	47.0	58.4	58.4	58.4	47.4
47.5°	26.0	39.0	50.0	39.9	27.7
50°	14.7	19.7	38.6	20.6	15.5
52.5°	10.1	11.3	26.5	11.7	10.5
55°	7.6	8.0	14.3	8.4	8.0
57.5°	5.9	6.3	7.6	6.3	5.9
60°	4.6	4.6	5.4	5.0	4.6
62.5°	3.4	3.4	3.8	3.4	3.4
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	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

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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(END OF REPORT)