

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: P746021

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746021  
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-EU4DR3020359040-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2837.3 lumens  
Efficiency: N/A  
Efficacy: 97.8 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): 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

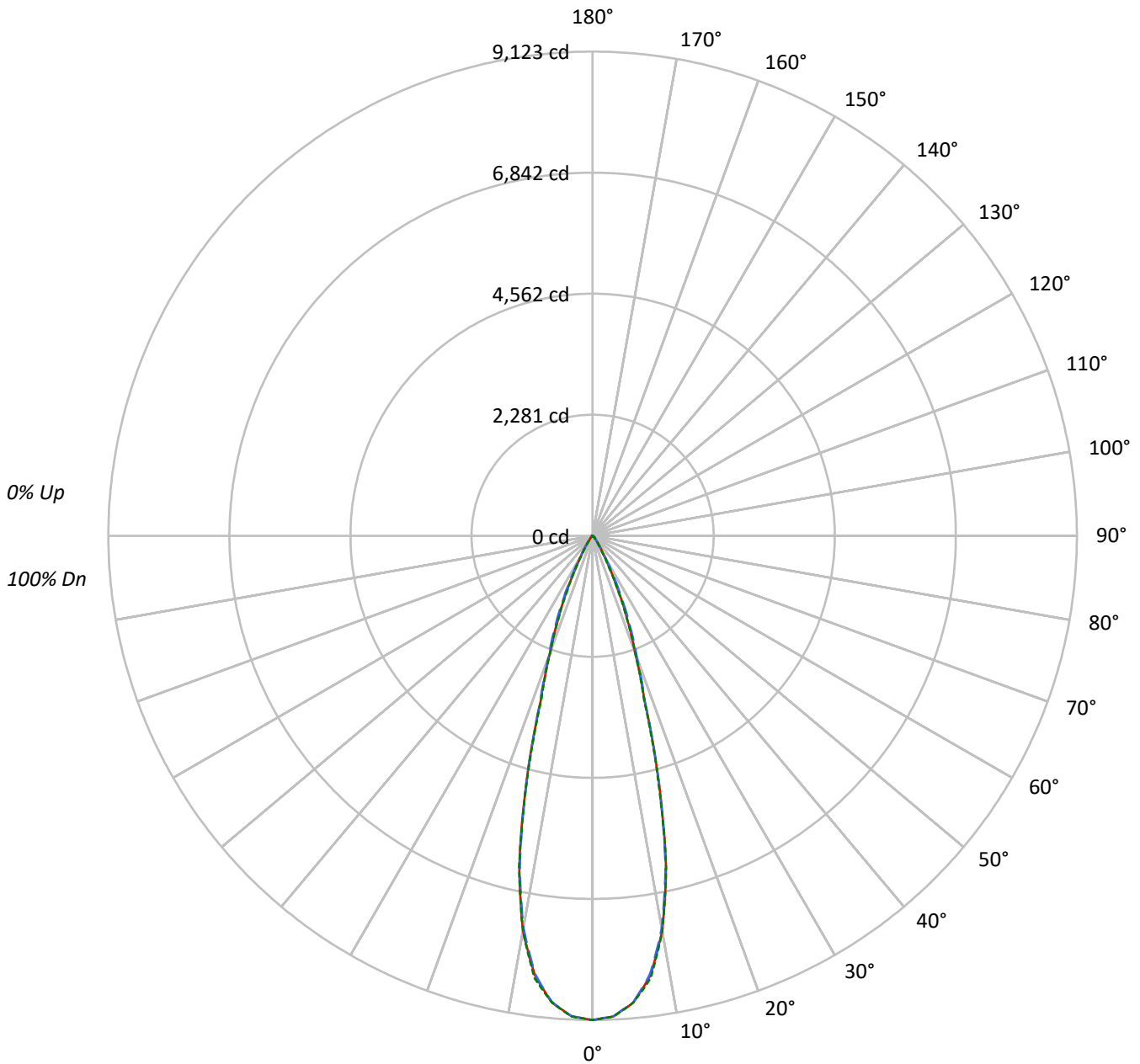


Downlight



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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	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°	698321	698321	698321
5°	678276	677484	678306
10°	587486	583343	587346
15°	383309	381249	379331
20°	190598	197750	190346
25°	96010	108265	94042
30°	38439	41886	33489
35°	17829	17081	14315
40°	7704	8543	7244
45°	5434	6744	5477
50°	1870	4906	1977
55°	1081	2028	1134
60°	750	888	750
65°	489	489	489
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6744 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.2	28.3
10°-20°	1292.0	45.5
20°-30°	558.3	19.7
30°-40°	127.3	4.5
40°-50°	43.7	1.5
50°-60°	10.7	0.4
60°-70°	2.8	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°	2652.6	93.5
0°-40°	2779.8	98.0
0°-60°	2834.2	99.9
0°-90°	2837.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9123	9123	9123	9123	9123	
5°	8828	8819	8817	8836	8828	803
15°	4837	4779	4811	4795	4787	1295
25°	1137	1180	1282	1150	1114	544
35°	191	195	183	181	153	129
45°	50	62	62	62	51	36
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
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°	9123.2	9123.2	9123.2	9123.2	9123.2
2.5°	9062.7	9056.5	9060.1	9064.5	9066.3
5°	8827.6	8819.1	8817.3	8835.6	8828.0
7.5°	8353.2	8341.1	8322.8	8364.5	8403.4
10°	7558.6	7545.2	7505.3	7525.0	7556.8
12.5°	6385.5	6342.0	6341.2	6403.9	6395.4
15°	4837.1	4778.9	4811.1	4795.4	4786.9
17.5°	3252.8	3230.4	3273.4	3260.4	3204.4
20°	2339.9	2345.8	2427.7	2386.5	2336.8
22.5°	1707.5	1728.5	1825.7	1719.5	1680.6
25°	1136.8	1179.8	1281.9	1149.8	1113.5
27.5°	699.2	718.9	822.4	690.2	670.5
30°	434.9	425.1	473.9	406.7	378.9
32.5°	285.3	272.8	288.5	258.9	236.5
35°	190.8	194.9	182.8	181.4	153.2
37.5°	119.2	137.0	120.9	129.0	98.5
40°	77.1	99.5	85.5	94.5	72.5
42.5°	63.1	76.6	70.3	74.8	64.5
45°	50.2	62.3	62.3	62.3	50.6
47.5°	27.8	41.7	53.3	42.6	29.6
50°	15.7	21.0	41.2	21.9	16.6
52.5°	10.8	12.1	28.2	12.5	11.2
55°	8.1	8.5	15.2	8.9	8.5
57.5°	6.2	6.7	8.1	6.7	6.2
60°	4.9	4.9	5.8	5.4	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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