

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: P745791

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D30D010-EU4DR1515309040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3088.8 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 29  
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

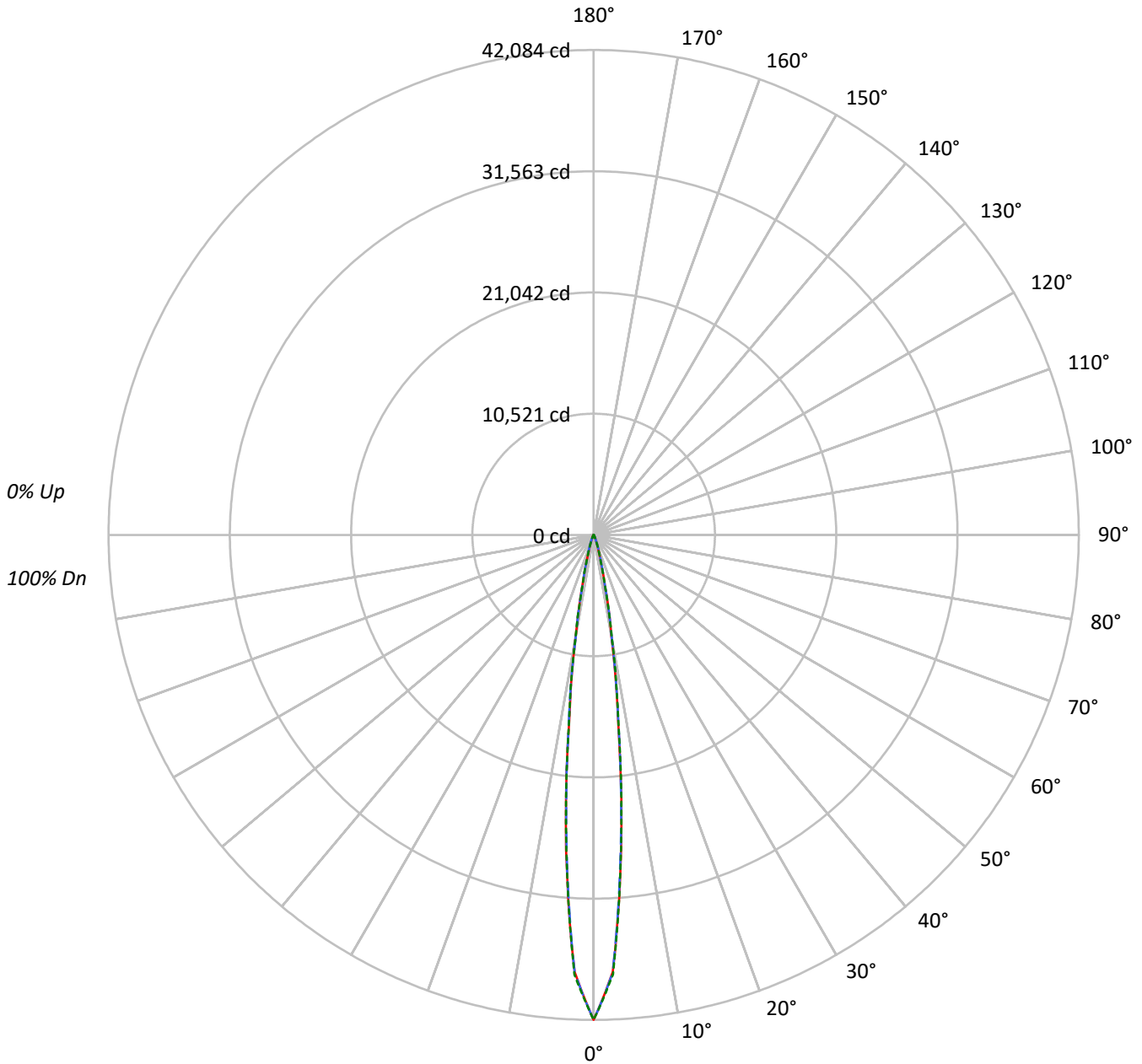


Downlight



TEST NUMBER: P745791  
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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

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

	0°	45°	90°
0°	4735335	4735335	4735335
5°	2782701	2746674	2768402
10°	830512	836325	849127
15°	206580	210602	204105
20°	61809	71579	63118
25°	21789	27756	22069
30°	8005	10536	8140
35°	4009	4531	3878
40°	2528	2784	2528
45°	1869	1995	1869
50°	1488	1488	1488
55°	1239	1239	1239
60°	1004	1004	1004
65°	764	764	764
70°	651	651	651
75°	401	401	537
80°	284	284	284
85°	149	149	149

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1995 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2003.3	64.9
10°-20°	824.0	26.7
20°-30°	163.7	5.3
30°-40°	40.8	1.3
40°-50°	21.5	0.7
50°-60°	15.9	0.5
60°-70°	11.3	0.4
70°-80°	6.4	0.2
80°-90°	2.0	0.1
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°	2991.0	96.8
0°-40°	3031.8	98.2
0°-60°	3069.2	99.4
0°-90°	3088.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	42084	42084	42084	42084	42084	
5°	27381	27100	27026	27214	27240	2000
15°	2378	2423	2425	2382	2350	815
25°	280	317	356	315	283	147
35°	55	59	62	59	53	37
45°	27	27	28	27	27	21
55°	18	18	18	18	18	16
65°	11	11	11	11	11	11
75°	5	5	5	5	7	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	42084.4	42084.4	42084.4	42084.4	42084.4
2.5°	37961.8	37993.9	38006.4	38043.8	38182.7
5°	27381.0	27099.5	27026.5	27213.6	27240.3
7.5°	16219.5	16276.5	16484.9	16531.2	16363.8
10°	8900.8	8973.8	8963.1	9027.2	9100.3
12.5°	4551.9	4494.9	4477.1	4550.1	4448.6
15°	2378.4	2422.9	2424.7	2382.0	2349.9
17.5°	1279.2	1330.8	1416.4	1346.9	1240.0
20°	755.4	801.7	874.8	817.7	771.4
22.5°	466.8	504.2	555.9	511.3	473.9
25°	279.7	317.1	356.3	315.3	283.3
27.5°	165.7	197.8	222.7	196.0	163.9
30°	106.9	124.7	140.7	122.9	108.7
32.5°	74.8	82.0	89.1	82.0	74.8
35°	55.2	58.8	62.4	58.8	53.4
37.5°	42.8	46.3	48.1	44.5	41.0
40°	35.6	37.4	39.2	37.4	35.6
42.5°	30.3	32.1	32.1	32.1	30.3
45°	26.7	26.7	28.5	26.7	26.7
47.5°	23.2	23.2	24.9	23.2	23.2
50°	21.4	21.4	21.4	21.4	21.4
52.5°	19.6	19.6	19.6	19.6	19.6
55°	17.8	17.8	17.8	17.8	17.8
57.5°	16.0	16.0	16.0	16.0	16.0
60°	14.3	14.3	14.3	14.3	14.3
62.5°	12.5	12.5	12.5	12.5	12.5
65°	10.7	10.7	10.7	10.7	10.7
67.5°	10.7	10.7	10.7	10.7	10.7
70°	8.9	8.9	8.9	8.9	8.9
72.5°	7.1	7.1	7.1	7.1	7.1
75°	5.3	5.3	5.3	5.3	7.1
77.5°	5.3	5.3	5.3	5.3	5.3
80°	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6
85°	1.8	1.8	1.8	1.8	1.8
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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