

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: P743906

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743906  
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: LD4D20D010-EU4DR1515309035-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2069.5 lumens  
Efficiency: N/A  
Efficacy: 89.6 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): 23.1  
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

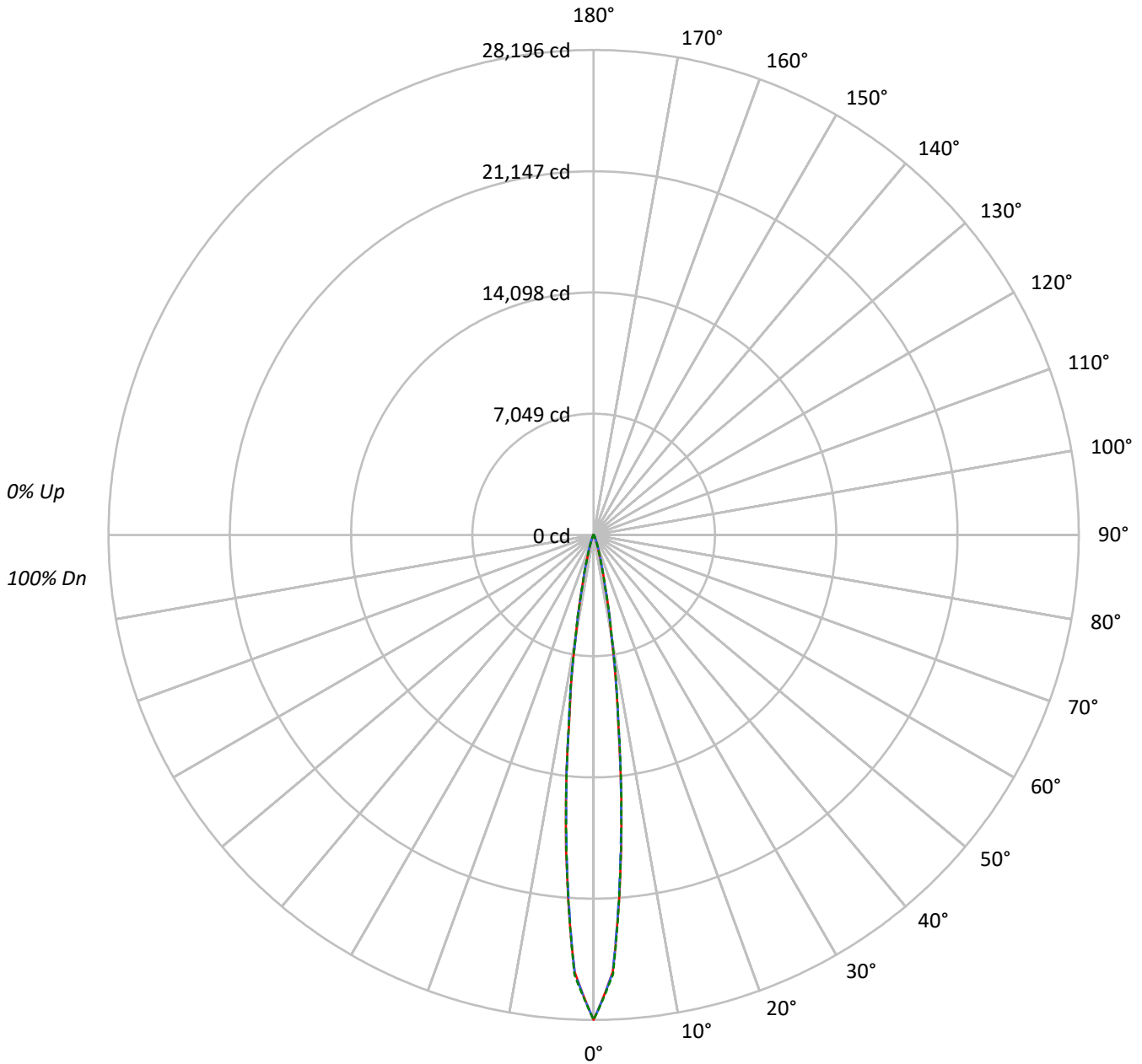


Downlight



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

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

	0°	45°	90°
0°	3172612	3172612	3172612
5°	1864382	1840235	1854799
10°	556430	560331	568906
15°	138406	141099	136747
20°	41411	47956	42286
25°	14599	18595	14786
30°	5361	7061	5451
35°	2687	3035	2600
40°	1697	1868	1697
45°	1253	1337	1253
50°	994	994	994
55°	828	828	828
60°	667	667	667
65°	514	514	514
70°	439	439	439
75°	272	272	363
80°	189	189	189
85°	100	100	100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1337 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1342.2	64.9
10°-20°	552.1	26.7
20°-30°	109.7	5.3
30°-40°	27.4	1.3
40°-50°	14.4	0.7
50°-60°	10.6	0.5
60°-70°	7.6	0.4
70°-80°	4.3	0.2
80°-90°	1.3	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°	2003.9	96.8
0°-40°	2031.3	98.2
0°-60°	2056.3	99.4
0°-90°	2069.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28196	28196	28196	28196	28196	
5°	18345	18156	18107	18233	18251	1340
15°	1594	1623	1624	1596	1574	546
25°	187	212	239	211	190	98
35°	37	39	42	39	36	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	5	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	28196.0	28196.0	28196.0	28196.0	28196.0
2.5°	25434.0	25455.4	25463.8	25488.9	25582.0
5°	18345.0	18156.4	18107.4	18232.8	18250.7
7.5°	10866.8	10905.0	11044.7	11075.7	10963.5
10°	5963.4	6012.3	6005.2	6048.1	6097.1
12.5°	3049.7	3011.5	2999.6	3048.5	2980.5
15°	1593.5	1623.3	1624.5	1595.9	1574.4
17.5°	857.0	891.6	948.9	902.4	830.8
20°	506.1	537.1	586.1	547.9	516.8
22.5°	312.7	337.8	372.4	342.6	317.5
25°	187.4	212.5	238.7	211.3	189.8
27.5°	111.0	132.5	149.2	131.3	109.8
30°	71.6	83.6	94.3	82.4	72.8
32.5°	50.1	54.9	59.7	54.9	50.1
35°	37.0	39.4	41.8	39.4	35.8
37.5°	28.6	31.0	32.2	29.8	27.5
40°	23.9	25.1	26.3	25.1	23.9
42.5°	20.3	21.5	21.5	21.5	20.3
45°	17.9	17.9	19.1	17.9	17.9
47.5°	15.5	15.5	16.7	15.5	15.5
50°	14.3	14.3	14.3	14.3	14.3
52.5°	13.1	13.1	13.1	13.1	13.1
55°	11.9	11.9	11.9	11.9	11.9
57.5°	10.7	10.7	10.7	10.7	10.7
60°	9.5	9.5	9.5	9.5	9.5
62.5°	8.4	8.4	8.4	8.4	8.4
65°	7.2	7.2	7.2	7.2	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	6.0	6.0	6.0	6.0	6.0
72.5°	4.8	4.8	4.8	4.8	4.8
75°	3.6	3.6	3.6	3.6	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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)