

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P745738

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745738  
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-EU4DR1515309024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2331.3 lumens  
Efficiency: N/A  
Efficacy: 80.4 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 (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

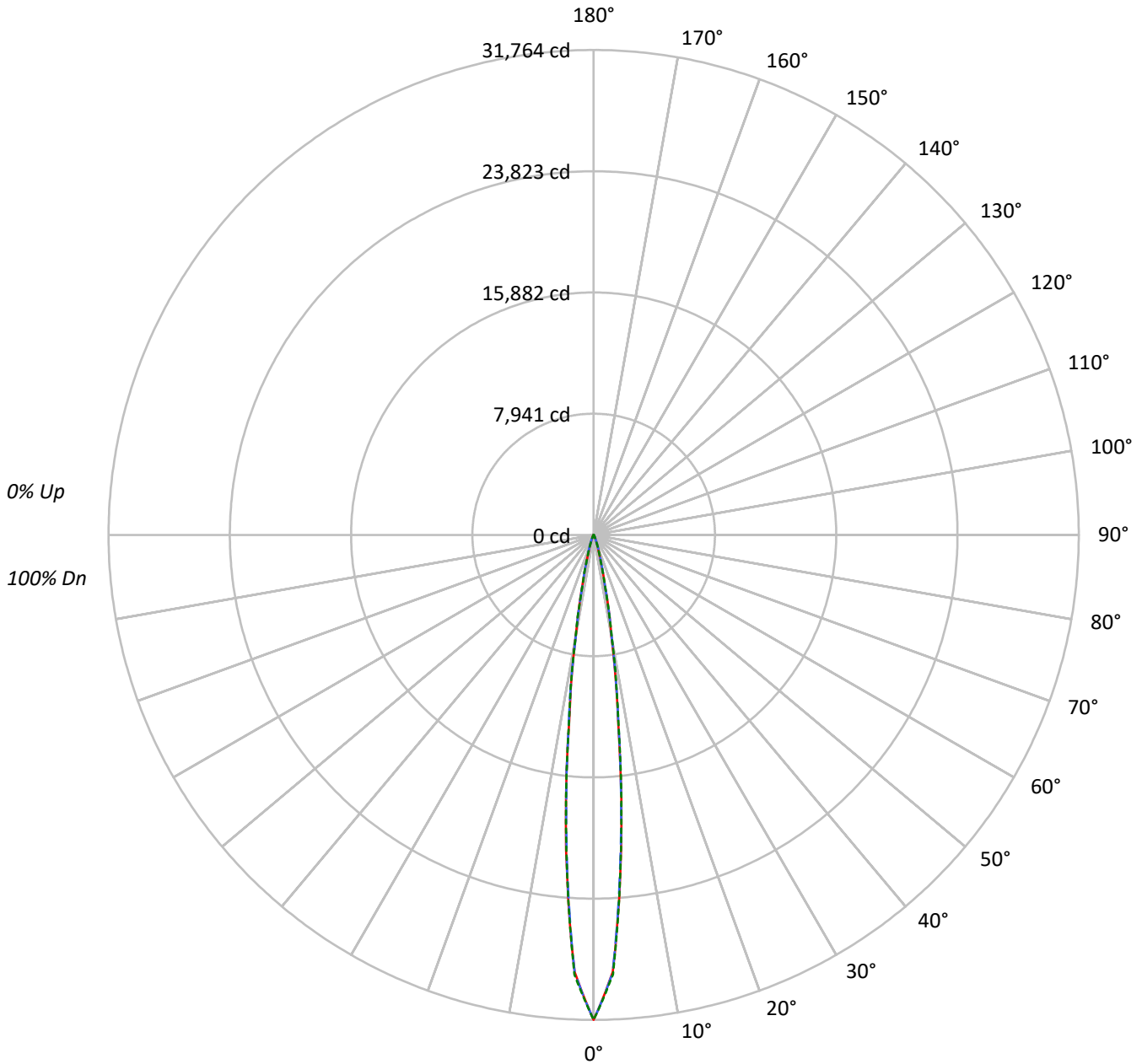


Downlight



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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°	3574072	3574072	3574072
5°	2100293	2073098	2089500
10°	626840	631235	640893
15°	155917	158957	154049
20°	46647	54019	47637
25°	16445	20948	16655
30°	6043	7952	6140
35°	3028	3420	2927
40°	1910	2102	1910
45°	1414	1505	1414
50°	1120	1120	1120
55°	933	933	933
60°	758	758	758
65°	578	578	578
70°	490	490	490
75°	302	302	408
80°	213	213	213
85°	108	108	108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1505 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1512.0	64.9
10°-20°	621.9	26.7
20°-30°	123.5	5.3
30°-40°	30.8	1.3
40°-50°	16.2	0.7
50°-60°	12.0	0.5
60°-70°	8.5	0.4
70°-80°	4.8	0.2
80°-90°	1.5	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°	2257.5	96.8
0°-40°	2288.3	98.2
0°-60°	2316.6	99.4
0°-90°	2331.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2331.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31764	31764	31764	31764	31764	
5°	20666	20454	20399	20540	20560	1509
15°	1795	1829	1830	1798	1774	615
25°	211	239	269	238	214	111
35°	42	44	47	44	40	28
45°	20	20	22	20	20	16
55°	13	13	13	13	13	12
65°	8	8	8	8	8	9
75°	4	4	4	4	5	5
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°	31763.9	31763.9	31763.9	31763.9	31763.9
2.5°	28652.4	28676.6	28686.0	28714.2	28819.1
5°	20666.3	20453.9	20398.7	20539.9	20560.1
7.5°	12241.9	12285.0	12442.3	12477.3	12350.9
10°	6718.0	6773.1	6765.1	6813.5	6868.6
12.5°	3435.6	3392.6	3379.2	3434.3	3357.7
15°	1795.1	1828.8	1830.1	1797.8	1773.6
17.5°	965.5	1004.5	1069.0	1016.6	935.9
20°	570.1	605.1	660.2	617.2	582.2
22.5°	352.3	380.5	419.5	385.9	357.7
25°	211.1	239.4	268.9	238.0	213.8
27.5°	125.1	149.3	168.1	147.9	123.7
30°	80.7	94.1	106.2	92.8	82.0
32.5°	56.5	61.9	67.2	61.9	56.5
35°	41.7	44.4	47.1	44.4	40.3
37.5°	32.3	35.0	36.3	33.6	30.9
40°	26.9	28.2	29.6	28.2	26.9
42.5°	22.9	24.2	24.2	24.2	22.9
45°	20.2	20.2	21.5	20.2	20.2
47.5°	17.5	17.5	18.8	17.5	17.5
50°	16.1	16.1	16.1	16.1	16.1
52.5°	14.8	14.8	14.8	14.8	14.8
55°	13.4	13.4	13.4	13.4	13.4
57.5°	12.1	12.1	12.1	12.1	12.1
60°	10.8	10.8	10.8	10.8	10.8
62.5°	9.4	9.4	9.4	9.4	9.4
65°	8.1	8.1	8.1	8.1	8.1
67.5°	8.1	8.1	8.1	8.1	8.1
70°	6.7	6.7	6.7	6.7	6.7
72.5°	5.4	5.4	5.4	5.4	5.4
75°	4.0	4.0	4.0	4.0	5.4
77.5°	4.0	4.0	4.0	4.0	4.0
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)