

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: P745775

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745775  
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-EU4DR1515309035-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2998.2 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

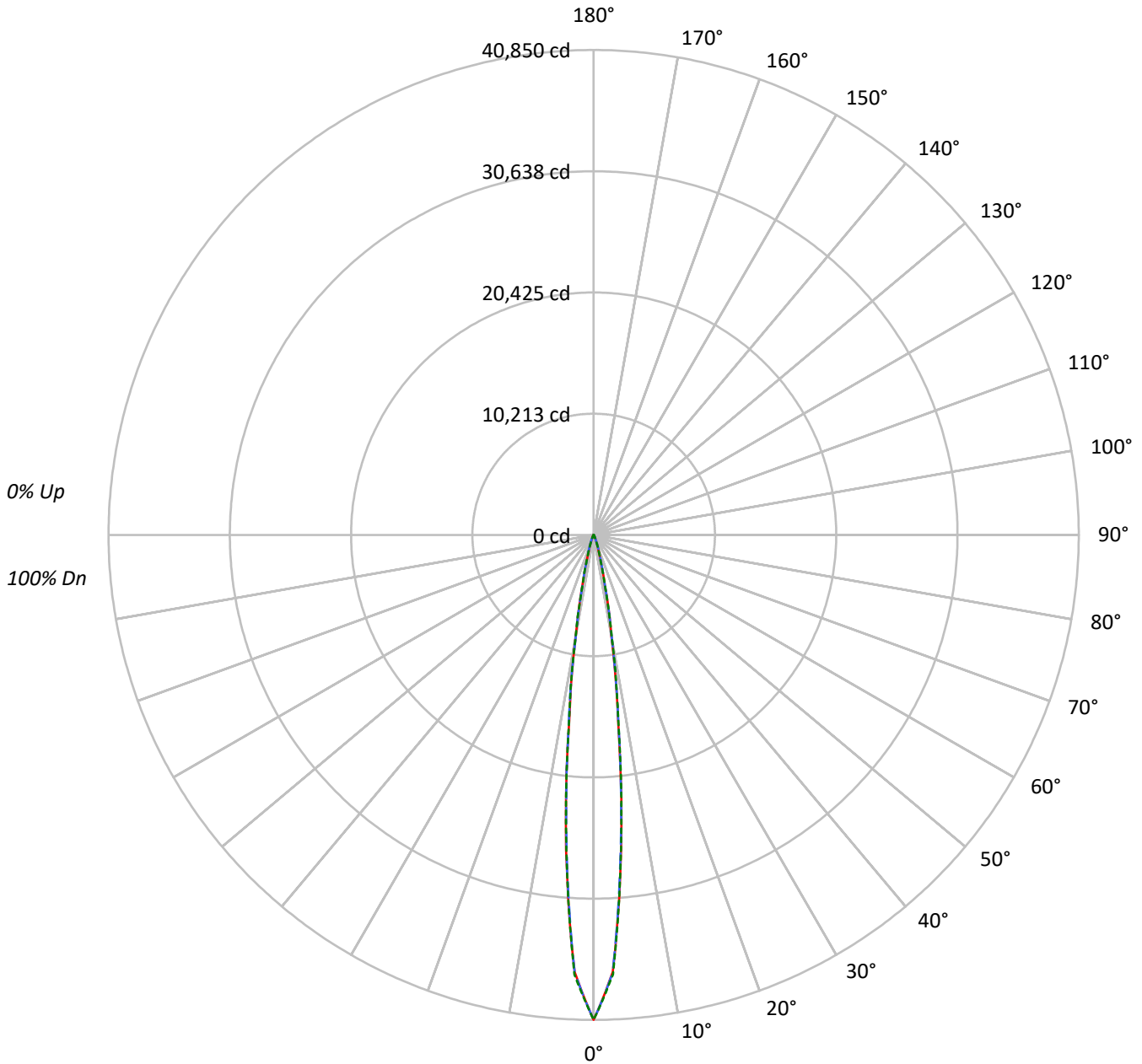


Downlight



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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°	4596406	4596406	4596406
5°	2701063	2666092	2687180
10°	806140	811785	824214
15°	200518	204426	198120
20°	59992	69476	61269
25°	21150	26946	21423
30°	7773	10229	7900
35°	3892	4393	3769
40°	2457	2699	2457
45°	1813	1939	1813
50°	1446	1446	1446
55°	1204	1204	1204
60°	969	969	969
65°	742	742	742
70°	629	629	629
75°	393	393	522
80°	276	276	276
85°	141	141	141

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1939 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1944.5	64.9
10°-20°	799.8	26.7
20°-30°	158.9	5.3
30°-40°	39.6	1.3
40°-50°	20.8	0.7
50°-60°	15.5	0.5
60°-70°	10.9	0.4
70°-80°	6.2	0.2
80°-90°	1.9	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°	2903.2	96.8
0°-40°	2942.9	98.2
0°-60°	2979.2	99.4
0°-90°	2998.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	40850	40850	40850	40850	40850	
5°	26578	26304	26234	26415	26441	1941
15°	2309	2352	2354	2312	2281	792
25°	272	308	346	306	275	143
35°	54	57	60	57	52	36
45°	26	26	28	26	26	20
55°	17	17	17	17	17	15
65°	10	10	10	10	10	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°	40849.7	40849.7	40849.7	40849.7	40849.7
2.5°	36848.1	36879.2	36891.3	36927.6	37062.5
5°	26577.7	26304.5	26233.6	26415.2	26441.1
7.5°	15743.6	15798.9	16001.3	16046.2	15883.7
10°	8639.6	8710.5	8700.1	8762.4	8833.3
12.5°	4418.4	4363.0	4345.7	4416.6	4318.1
15°	2308.6	2351.9	2353.6	2312.1	2281.0
17.5°	1241.6	1291.8	1374.8	1307.4	1203.6
20°	733.2	778.2	849.1	793.8	748.8
22.5°	453.1	489.4	539.5	496.3	460.0
25°	271.5	307.8	345.9	306.1	275.0
27.5°	160.8	192.0	216.2	190.2	159.1
30°	103.8	121.1	136.6	119.3	105.5
32.5°	72.6	79.5	86.5	79.5	72.6
35°	53.6	57.1	60.5	57.1	51.9
37.5°	41.5	45.0	46.7	43.2	39.8
40°	34.6	36.3	38.0	36.3	34.6
42.5°	29.4	31.1	31.1	31.1	29.4
45°	25.9	25.9	27.7	25.9	25.9
47.5°	22.5	22.5	24.2	22.5	22.5
50°	20.8	20.8	20.8	20.8	20.8
52.5°	19.0	19.0	19.0	19.0	19.0
55°	17.3	17.3	17.3	17.3	17.3
57.5°	15.6	15.6	15.6	15.6	15.6
60°	13.8	13.8	13.8	13.8	13.8
62.5°	12.1	12.1	12.1	12.1	12.1
65°	10.4	10.4	10.4	10.4	10.4
67.5°	10.4	10.4	10.4	10.4	10.4
70°	8.6	8.6	8.6	8.6	8.6
72.5°	6.9	6.9	6.9	6.9	6.9
75°	5.2	5.2	5.2	5.2	6.9
77.5°	5.2	5.2	5.2	5.2	5.2
80°	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5
85°	1.7	1.7	1.7	1.7	1.7
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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