

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: P743903

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743903
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-EU4DR1515309035-4LBDP1LI
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: 2064.3 lumens
Efficiency: N/A
Efficacy: 89.4 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): 23.1
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

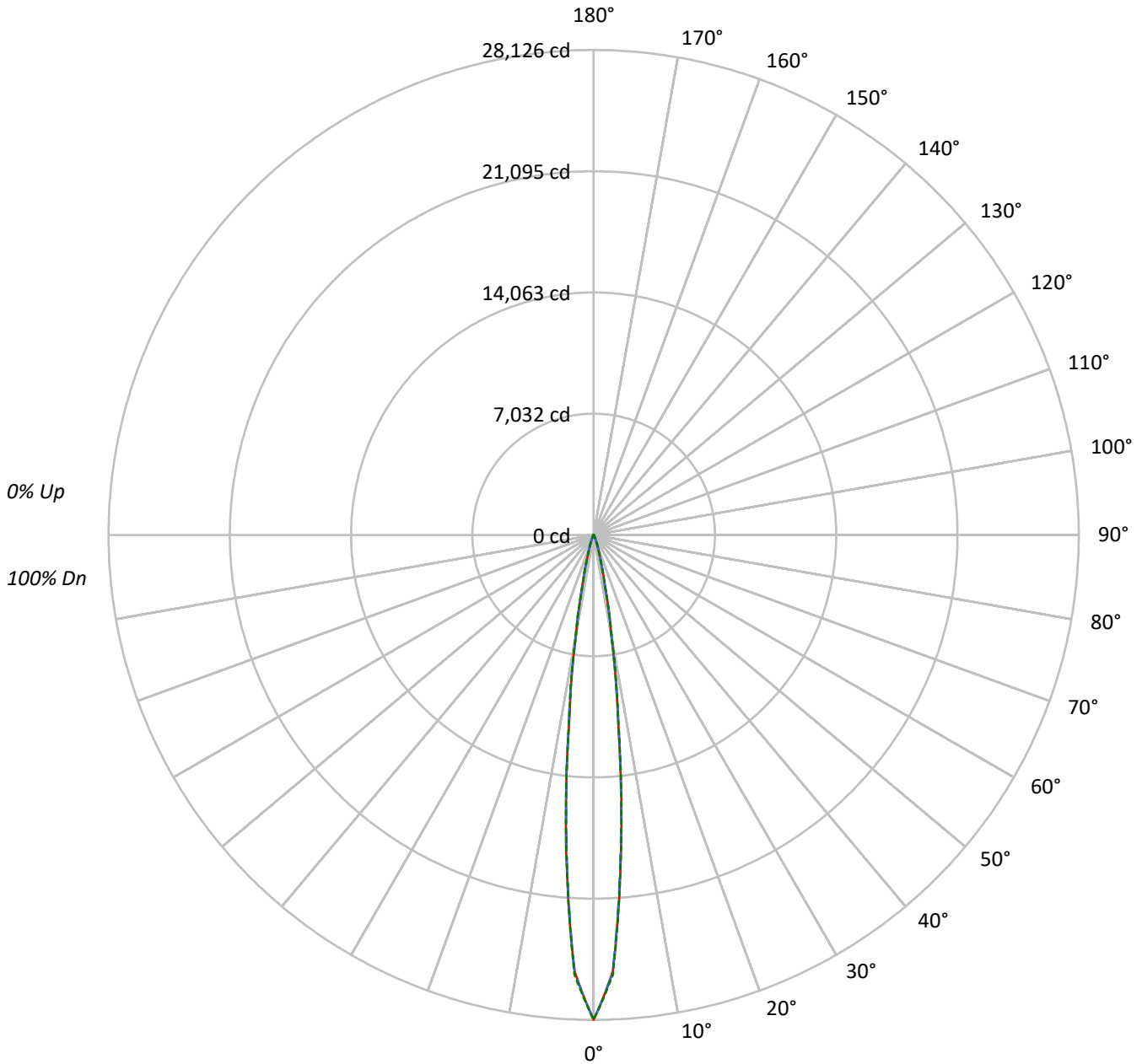


Downlight



TEST NUMBER: P743903
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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°	3164680	3164680	3164680
5°	1859717	1835642	1850154
10°	555040	558931	567478
15°	138059	140752	136409
20°	41304	47834	42188
25°	14560	18548	14747
30°	5347	7046	5436
35°	2680	3028	2593
40°	1690	1861	1690
45°	1253	1337	1253
50°	994	994	994
55°	828	828	828
60°	667	667	667
65°	507	507	507
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°	1338.8	64.9
10°-20°	550.7	26.7
20°-30°	109.4	5.3
30°-40°	27.3	1.3
40°-50°	14.4	0.7
50°-60°	10.6	0.5
60°-70°	7.5	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°	1998.9	96.8
0°-40°	2026.2	98.2
0°-60°	2051.2	99.4
0°-90°	2064.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28126	28126	28126	28126	28126	
5°	18299	18111	18062	18187	18205	1336
15°	1590	1619	1620	1592	1570	545
25°	187	212	238	211	189	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	7
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°	28125.5	28125.5	28125.5	28125.5	28125.5
2.5°	25370.4	25391.8	25400.1	25425.1	25518.0
5°	18299.1	18111.0	18062.2	18187.2	18205.0
7.5°	10839.7	10877.8	11017.1	11048.0	10936.1
10°	5948.5	5997.3	5990.2	6033.0	6081.8
12.5°	3042.1	3004.0	2992.1	3040.9	2973.1
15°	1589.5	1619.3	1620.5	1591.9	1570.5
17.5°	854.9	889.4	946.6	900.1	828.7
20°	504.8	535.8	584.6	546.5	515.6
22.5°	312.0	337.0	371.5	341.7	316.7
25°	186.9	211.9	238.1	210.7	189.3
27.5°	110.7	132.2	148.8	131.0	109.5
30°	71.4	83.3	94.1	82.2	72.6
32.5°	50.0	54.8	59.5	54.8	50.0
35°	36.9	39.3	41.7	39.3	35.7
37.5°	28.6	31.0	32.1	29.8	27.4
40°	23.8	25.0	26.2	25.0	23.8
42.5°	20.2	21.4	21.4	21.4	20.2
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°	8.3	8.3	8.3	8.3	8.3
65°	7.1	7.1	7.1	7.1	7.1
67.5°	7.1	7.1	7.1	7.1	7.1
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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