

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: P743868

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743868
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-EU4DR1515309024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1795.8 lumens
Efficiency: N/A
Efficacy: 77.7 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_{in}): 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

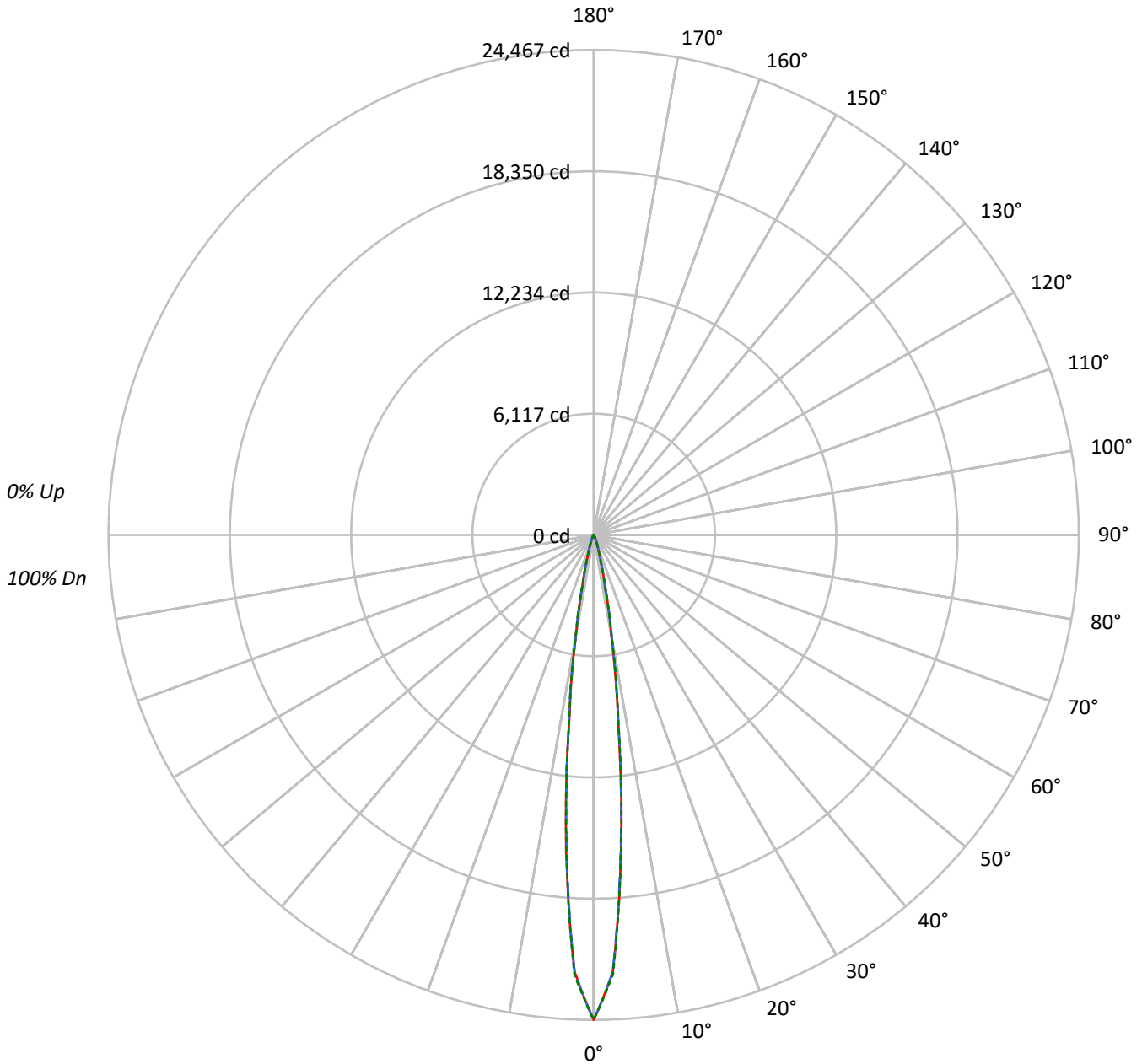


Downlight



TEST NUMBER: P743868
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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			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°	2753014	2753014	2753014
5°	1617800	1596854	1609487
10°	482839	486217	493662
15°	120097	122442	118664
20°	35937	41615	36698
25°	12667	16141	12830
30°	4650	6125	4732
35°	2331	2636	2258
40°	1470	1619	1470
45°	1085	1162	1085
50°	862	862	862
55°	724	724	724
60°	583	583	583
65°	442	442	442
70°	380	380	380
75°	234	234	310
80°	166	166	166
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1164.7	64.9
10°-20°	479.1	26.7
20°-30°	95.2	5.3
30°-40°	23.8	1.3
40°-50°	12.5	0.7
50°-60°	9.3	0.5
60°-70°	6.5	0.4
70°-80°	3.7	0.2
80°-90°	1.1	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°	1738.9	96.8
0°-40°	1762.6	98.2
0°-60°	1784.4	99.4
0°-90°	1795.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24467	24467	24467	24467	24467	
5°	15919	15755	15713	15821	15837	1162
15°	1383	1409	1410	1385	1366	474
25°	163	184	207	183	165	85
35°	32	34	36	34	31	22
45°	16	16	17	16	16	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	7
75°	3	3	3	3	4	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°	24466.9	24466.9	24466.9	24466.9	24466.9
2.5°	22070.1	22088.8	22096.0	22117.8	22198.6
5°	15918.7	15755.0	15712.6	15821.3	15836.9
7.5°	9429.6	9462.8	9583.9	9610.9	9513.5
10°	5174.7	5217.2	5210.9	5248.2	5290.7
12.5°	2646.4	2613.2	2602.9	2645.3	2586.3
15°	1382.7	1408.6	1409.7	1384.8	1366.2
17.5°	743.7	773.7	823.4	783.0	720.9
20°	439.2	466.1	508.6	475.4	448.5
22.5°	271.4	293.1	323.2	297.3	275.5
25°	162.6	184.4	207.2	183.3	164.7
27.5°	96.3	115.0	129.5	113.9	95.3
30°	62.1	72.5	81.8	71.5	63.2
32.5°	43.5	47.6	51.8	47.6	43.5
35°	32.1	34.2	36.3	34.2	31.1
37.5°	24.9	26.9	28.0	25.9	23.8
40°	20.7	21.8	22.8	21.8	20.7
42.5°	17.6	18.6	18.6	18.6	17.6
45°	15.5	15.5	16.6	15.5	15.5
47.5°	13.5	13.5	14.5	13.5	13.5
50°	12.4	12.4	12.4	12.4	12.4
52.5°	11.4	11.4	11.4	11.4	11.4
55°	10.4	10.4	10.4	10.4	10.4
57.5°	9.3	9.3	9.3	9.3	9.3
60°	8.3	8.3	8.3	8.3	8.3
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	6.2	6.2	6.2	6.2	6.2
70°	5.2	5.2	5.2	5.2	5.2
72.5°	4.1	4.1	4.1	4.1	4.1
75°	3.1	3.1	3.1	3.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0
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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