

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: P743913

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743913
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-EU4DR1515309040-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1902.9 lumens
Efficiency: N/A
Efficacy: 82.4 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

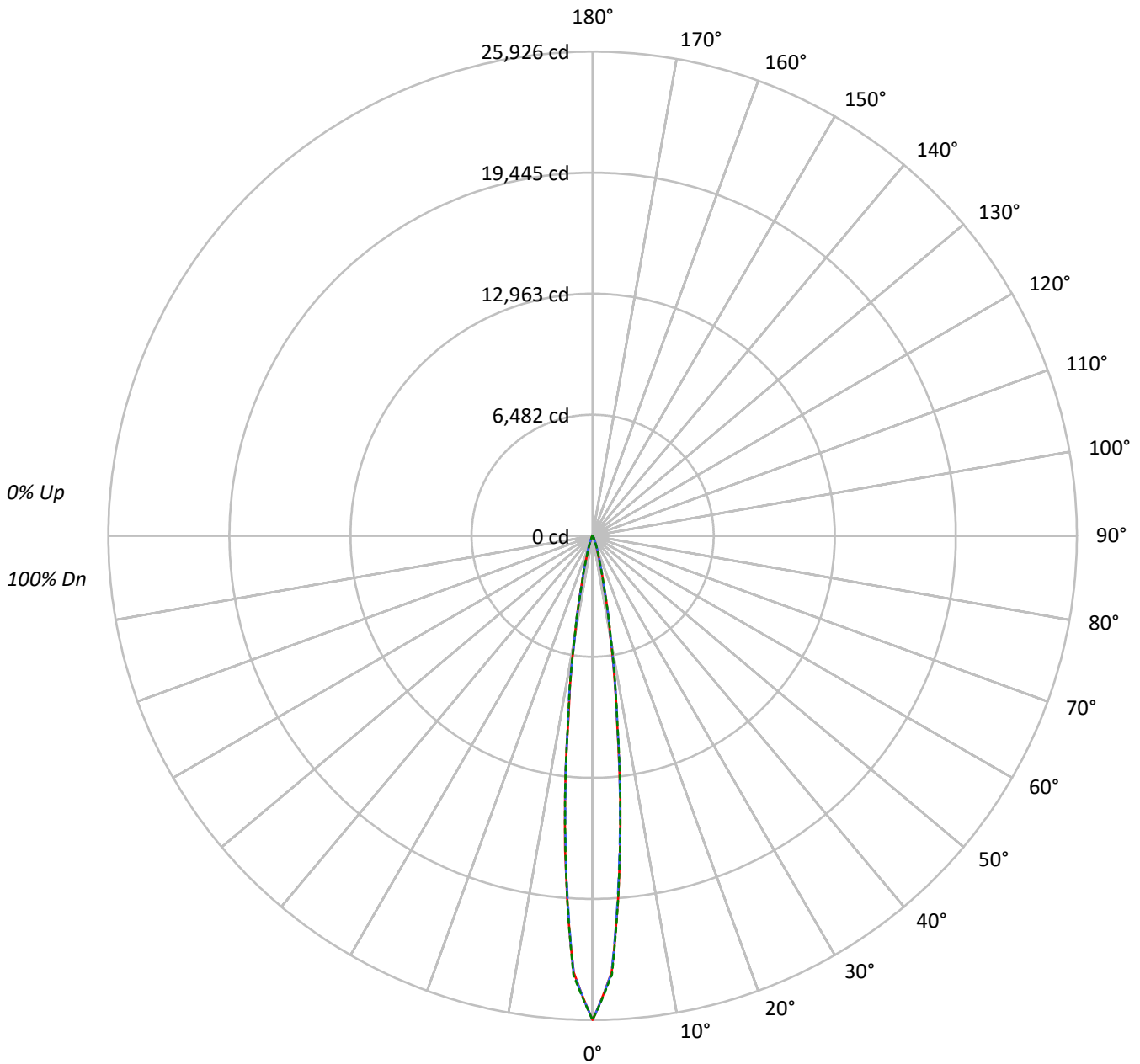


Downlight



TEST NUMBER: P743913
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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	87	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°	2917215	2917215	2917215
5°	1714287	1692091	1705475
10°	511634	515217	523110
15°	127263	129747	125743
20°	38080	44094	38882
25°	13422	17099	13594
30°	4935	6492	5017
35°	2469	2789	2389
40°	1562	1711	1562
45°	1155	1232	1155
50°	918	918	918
55°	766	766	766
60°	618	618	618
65°	471	471	471
70°	402	402	402
75°	249	249	333
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1232 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1234.1	64.9
10°-20°	507.6	26.7
20°-30°	100.8	5.3
30°-40°	25.2	1.3
40°-50°	13.3	0.7
50°-60°	9.8	0.5
60°-70°	6.9	0.4
70°-80°	4.0	0.2
80°-90°	1.2	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°	1842.6	96.8
0°-40°	1867.8	98.2
0°-60°	1890.8	99.4
0°-90°	1902.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25926	25926	25926	25926	25926	
5°	16868	16695	16650	16765	16781	1232
15°	1465	1493	1494	1467	1448	502
25°	172	195	220	194	174	91
35°	34	36	38	36	33	23
45°	16	16	18	16	16	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	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°	25926.2	25926.2	25926.2	25926.2	25926.2
2.5°	23386.5	23406.2	23413.9	23436.9	23522.6
5°	16868.1	16694.7	16649.7	16765.0	16781.4
7.5°	9992.0	10027.2	10155.6	10184.1	10080.9
10°	5483.3	5528.3	5521.7	5561.3	5606.3
12.5°	2804.2	2769.1	2758.1	2803.1	2740.6
15°	1465.2	1492.7	1493.8	1467.4	1447.7
17.5°	788.0	819.9	872.5	829.7	763.9
20°	465.4	493.9	538.9	503.8	475.2
22.5°	287.6	310.6	342.4	315.0	291.9
25°	172.3	195.4	219.5	194.3	174.5
27.5°	102.1	121.8	137.2	120.7	101.0
30°	65.9	76.8	86.7	75.7	67.0
32.5°	46.1	50.5	54.9	50.5	46.1
35°	34.0	36.2	38.4	36.2	32.9
37.5°	26.3	28.5	29.6	27.4	25.2
40°	22.0	23.0	24.1	23.0	22.0
42.5°	18.7	19.8	19.8	19.8	18.7
45°	16.5	16.5	17.6	16.5	16.5
47.5°	14.3	14.3	15.4	14.3	14.3
50°	13.2	13.2	13.2	13.2	13.2
52.5°	12.1	12.1	12.1	12.1	12.1
55°	11.0	11.0	11.0	11.0	11.0
57.5°	9.9	9.9	9.9	9.9	9.9
60°	8.8	8.8	8.8	8.8	8.8
62.5°	7.7	7.7	7.7	7.7	7.7
65°	6.6	6.6	6.6	6.6	6.6
67.5°	6.6	6.6	6.6	6.6	6.6
70°	5.5	5.5	5.5	5.5	5.5
72.5°	4.4	4.4	4.4	4.4	4.4
75°	3.3	3.3	3.3	3.3	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
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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