

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: P743900

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743900
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-EU4DR1515309035-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1851.6 lumens
Efficiency: N/A
Efficacy: 80.2 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

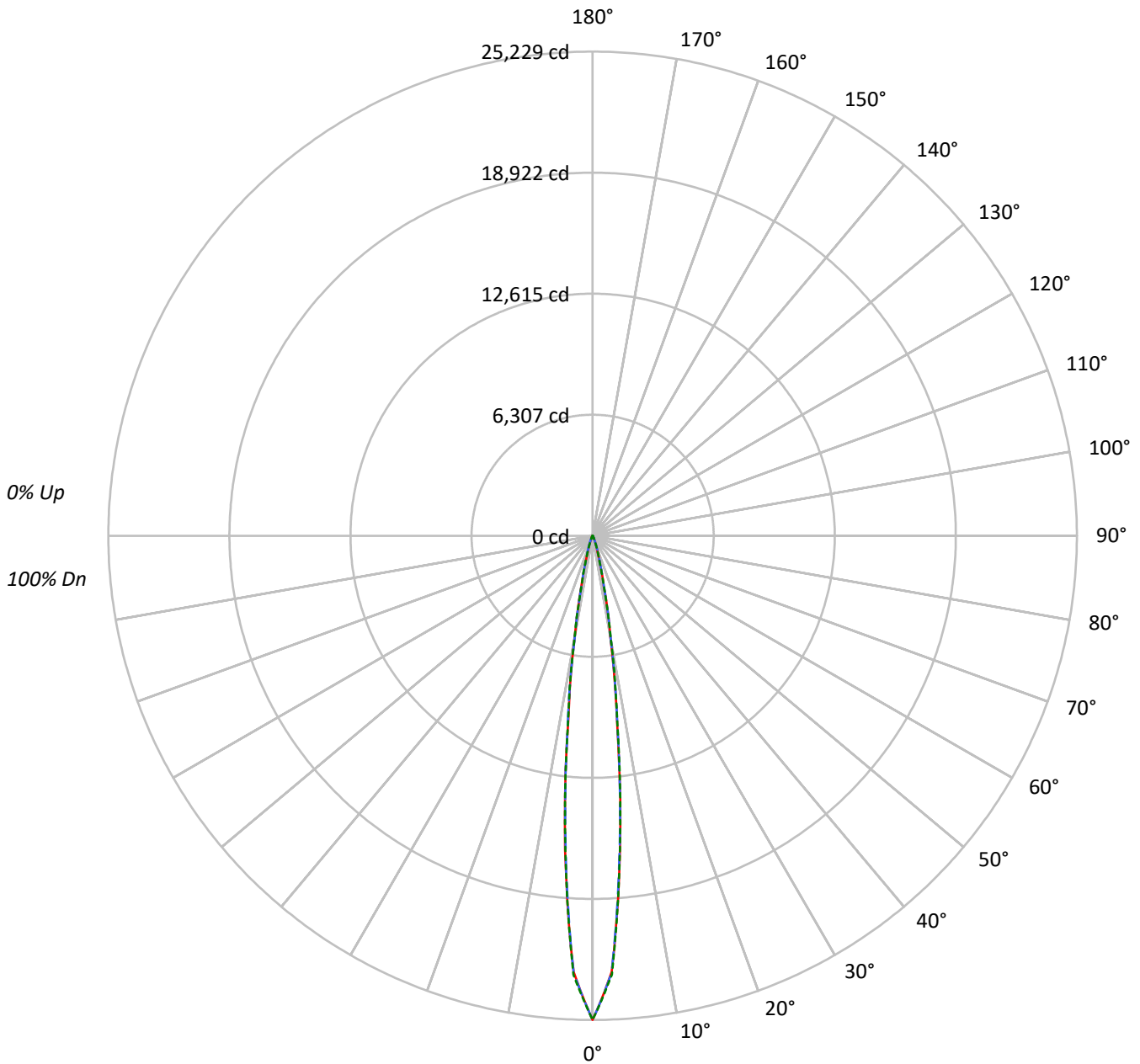


Downlight



TEST NUMBER: P743900
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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°	2838721	2838721	2838721
5°	1668167	1646571	1659590
10°	497871	501360	509030
15°	123840	126255	122355
20°	37049	42908	37835
25°	13064	16640	13228
30°	4800	6320	4875
35°	2404	2716	2324
40°	1520	1669	1520
45°	1120	1197	1120
50°	890	890	890
55°	745	745	745
60°	597	597	597
65°	457	457	457
70°	388	388	388
75°	242	242	325
80°	166	166	166
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1197 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1200.9	64.9
10°-20°	494.0	26.7
20°-30°	98.1	5.3
30°-40°	24.5	1.3
40°-50°	12.9	0.7
50°-60°	9.5	0.5
60°-70°	6.7	0.4
70°-80°	3.8	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°	1793.0	96.8
0°-40°	1817.5	98.2
0°-60°	1839.9	99.4
0°-90°	1851.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1851.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25229	25229	25229	25229	25229	
5°	16414	16246	16202	16314	16330	1199
15°	1426	1452	1454	1428	1409	489
25°	168	190	214	189	170	88
35°	33	35	37	35	32	22
45°	16	16	17	16	16	13
55°	11	11	11	11	11	10
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°	25228.6	25228.6	25228.6	25228.6	25228.6
2.5°	22757.2	22776.5	22783.9	22806.4	22889.7
5°	16414.3	16245.6	16201.8	16313.9	16329.9
7.5°	9723.2	9757.4	9882.3	9910.1	9809.7
10°	5335.8	5379.6	5373.2	5411.6	5455.4
12.5°	2728.8	2694.6	2683.9	2727.7	2666.8
15°	1425.8	1452.5	1453.6	1427.9	1408.7
17.5°	766.8	797.8	849.1	807.4	743.3
20°	452.8	480.6	524.4	490.2	462.4
22.5°	279.8	302.2	333.2	306.5	284.1
25°	167.7	190.1	213.6	189.0	169.8
27.5°	99.3	118.5	133.5	117.5	98.3
30°	64.1	74.8	84.4	73.7	65.1
32.5°	44.9	49.1	53.4	49.1	44.9
35°	33.1	35.2	37.4	35.2	32.0
37.5°	25.6	27.8	28.8	26.7	24.6
40°	21.4	22.4	23.5	22.4	21.4
42.5°	18.2	19.2	19.2	19.2	18.2
45°	16.0	16.0	17.1	16.0	16.0
47.5°	13.9	13.9	15.0	13.9	13.9
50°	12.8	12.8	12.8	12.8	12.8
52.5°	11.7	11.7	11.7	11.7	11.7
55°	10.7	10.7	10.7	10.7	10.7
57.5°	9.6	9.6	9.6	9.6	9.6
60°	8.5	8.5	8.5	8.5	8.5
62.5°	7.5	7.5	7.5	7.5	7.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.3	4.3	4.3	4.3	4.3
75°	3.2	3.2	3.2	3.2	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	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

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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