

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: P743936

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743936
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-EU4DR1515309050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1813.5 lumens
Efficiency: N/A
Efficacy: 78.5 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



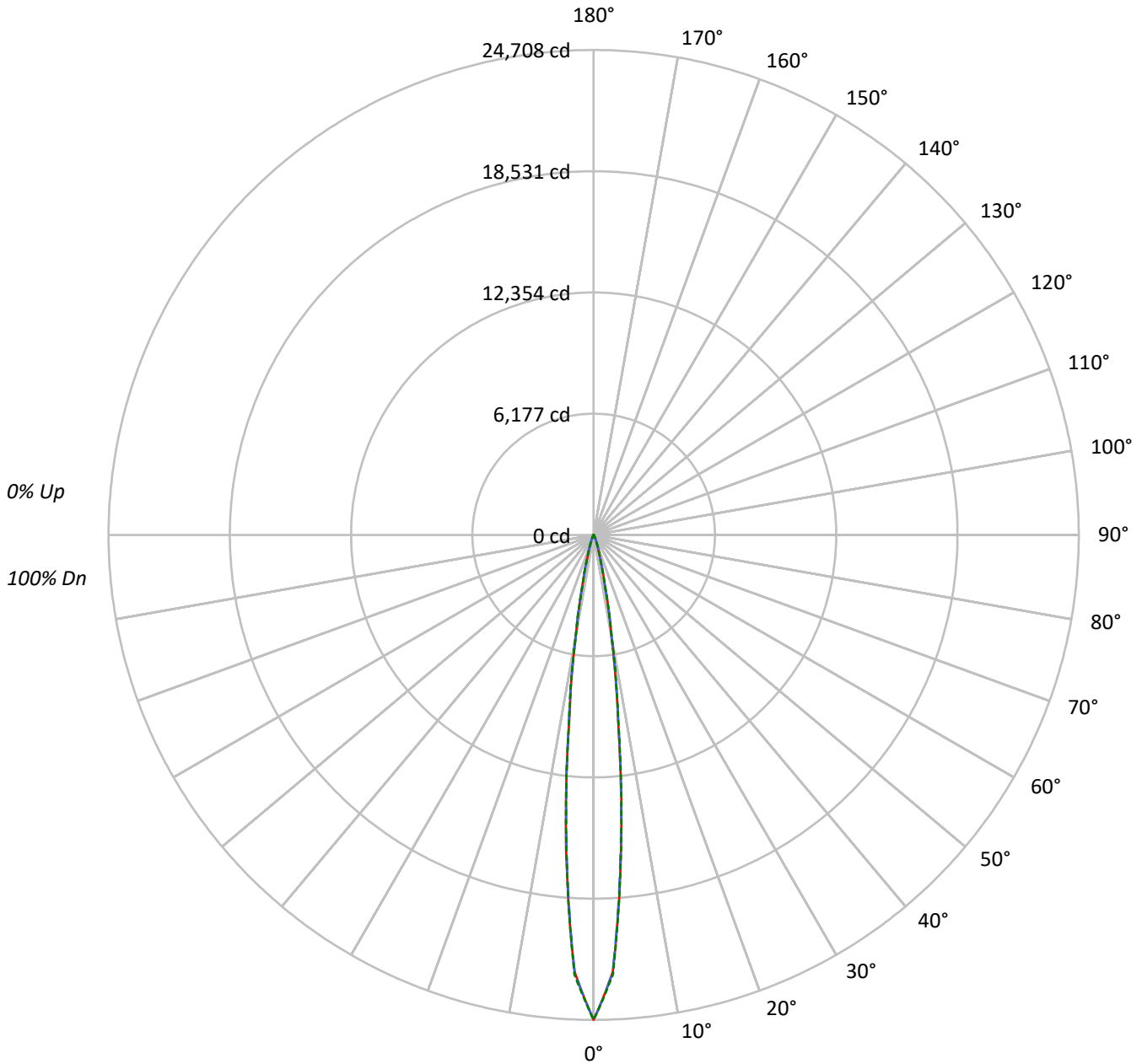
Downlight



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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°	2780199	2780199	2780199
5°	1633776	1612617	1625382
10°	487607	491022	498533
15°	121287	123649	119836
20°	36288	42024	37058
25°	12791	16297	12955
30°	4703	6185	4777
35°	2353	2658	2280
40°	1484	1633	1484
45°	1099	1169	1099
50°	876	876	876
55°	731	731	731
60°	590	590	590
65°	450	450	450
70°	380	380	380
75°	234	234	317
80°	166	166	166
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1169 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1176.2	64.9
10°-20°	483.8	26.7
20°-30°	96.1	5.3
30°-40°	24.0	1.3
40°-50°	12.6	0.7
50°-60°	9.4	0.5
60°-70°	6.6	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°	1756.1	96.8
0°-40°	1780.0	98.2
0°-60°	1802.0	99.4
0°-90°	1813.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1813.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24708	24708	24708	24708	24708	
5°	16076	15911	15868	15978	15993	1174
15°	1396	1423	1424	1398	1380	479
25°	164	186	209	185	166	86
35°	32	34	37	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°	24708.5	24708.5	24708.5	24708.5	24708.5
2.5°	22288.1	22306.9	22314.2	22336.2	22417.8
5°	16075.9	15910.6	15867.7	15977.6	15993.3
7.5°	9522.7	9556.2	9678.6	9705.8	9607.5
10°	5225.8	5268.7	5262.4	5300.1	5342.9
12.5°	2672.5	2639.0	2628.6	2671.5	2611.8
15°	1396.4	1422.6	1423.6	1398.5	1379.7
17.5°	751.0	781.4	831.6	790.8	728.0
20°	443.5	470.7	513.6	480.1	452.9
22.5°	274.1	296.0	326.4	300.2	278.2
25°	164.2	186.2	209.2	185.1	166.3
27.5°	97.3	116.1	130.7	115.1	96.2
30°	62.8	73.2	82.6	72.2	63.8
32.5°	43.9	48.1	52.3	48.1	43.9
35°	32.4	34.5	36.6	34.5	31.4
37.5°	25.1	27.2	28.2	26.1	24.1
40°	20.9	22.0	23.0	22.0	20.9
42.5°	17.8	18.8	18.8	18.8	17.8
45°	15.7	15.7	16.7	15.7	15.7
47.5°	13.6	13.6	14.6	13.6	13.6
50°	12.6	12.6	12.6	12.6	12.6
52.5°	11.5	11.5	11.5	11.5	11.5
55°	10.5	10.5	10.5	10.5	10.5
57.5°	9.4	9.4	9.4	9.4	9.4
60°	8.4	8.4	8.4	8.4	8.4
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.3	6.3	6.3	6.3	6.3
67.5°	6.3	6.3	6.3	6.3	6.3
70°	5.2	5.2	5.2	5.2	5.2
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.1	3.1	3.1	3.1	4.2
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

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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