

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: P741878

Luminaire Tested: LD4D10D010-EU4DR150210IC9027-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741878
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: LD4D10D010-EU4DR150210IC9027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 920.7 lumens
Efficiency: N/A
Efficacy: 78.7 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): 11.7
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



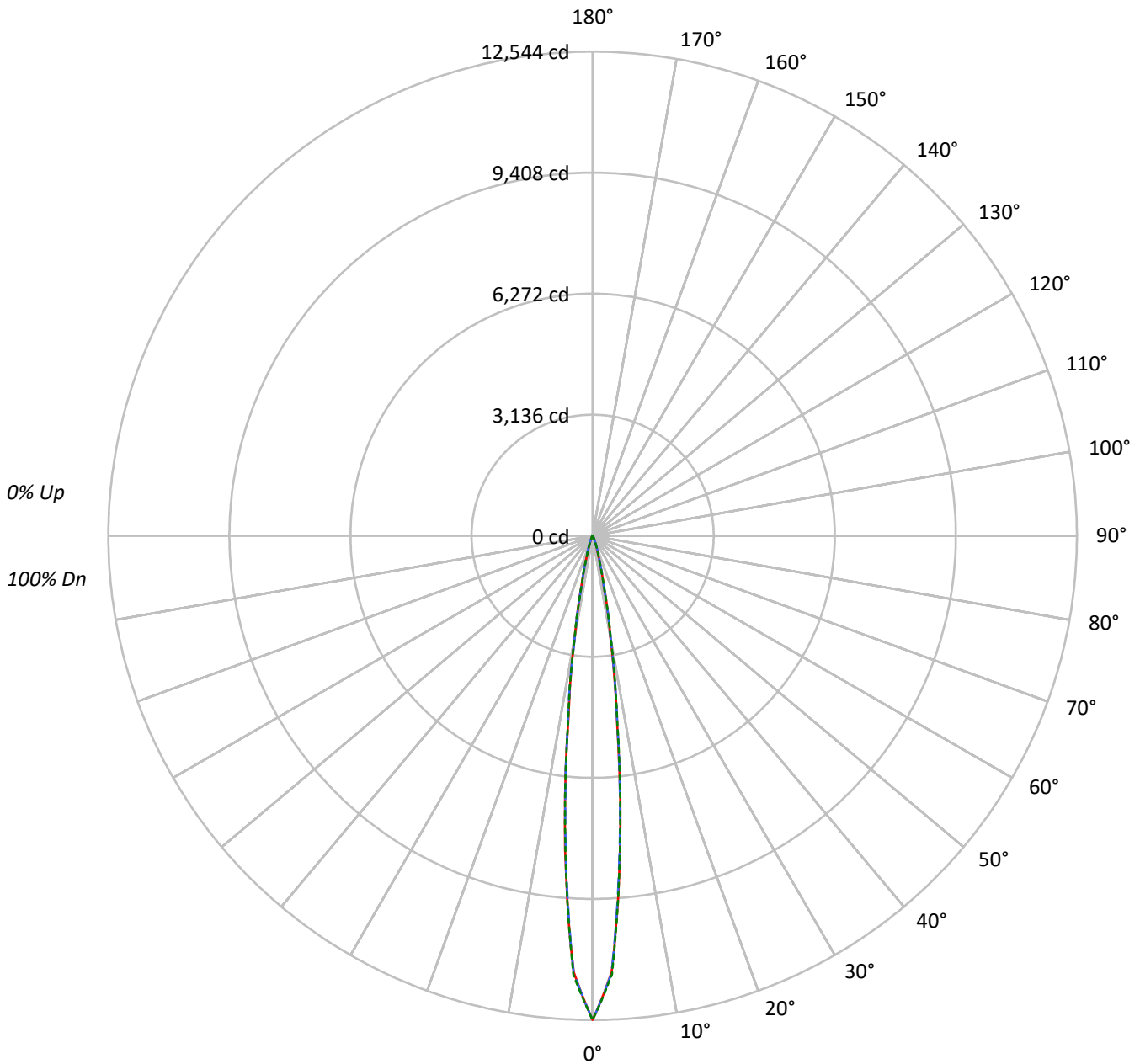
Downlight



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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	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°	1411394	1411394	1411394
5°	829404	818661	825135
10°	247536	249271	253088
15°	61573	62771	60835
20°	18418	21331	18811
25°	6497	8273	6575
30°	2389	3138	2426
35°	1198	1351	1155
40°	753	831	753
45°	560	595	560
50°	445	445	445
55°	369	369	369
60°	295	295	295
65°	228	228	228
70°	197	197	197
75°	121	121	159
80°	87	87	87
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 595 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.1	64.9
10°-20°	245.6	26.7
20°-30°	48.8	5.3
30°-40°	12.2	1.3
40°-50°	6.4	0.7
50°-60°	4.7	0.5
60°-70°	3.4	0.4
70°-80°	1.9	0.2
80°-90°	0.6	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°	891.5	96.8
0°-40°	903.7	98.2
0°-60°	914.8	99.4
0°-90°	920.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12544	12544	12544	12544	12544	
5°	8161	8077	8055	8111	8119	596
15°	709	722	723	710	700	243
25°	83	94	106	94	84	44
35°	16	18	19	18	16	11
45°	8	8	8	8	8	6
55°	5	5	5	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12543.5	12543.5	12543.5	12543.5	12543.5
2.5°	11314.8	11324.3	11328.0	11339.2	11380.6
5°	8161.1	8077.2	8055.4	8111.2	8119.1
7.5°	4834.3	4851.3	4913.4	4927.2	4877.3
10°	2652.9	2674.7	2671.5	2690.6	2712.4
12.5°	1356.7	1339.7	1334.4	1356.2	1325.9
15°	708.9	722.2	722.7	710.0	700.4
17.5°	381.3	396.7	422.2	401.4	369.6
20°	225.1	239.0	260.7	243.7	229.9
22.5°	139.1	150.3	165.7	152.4	141.2
25°	83.4	94.5	106.2	94.0	84.4
27.5°	49.4	58.9	66.4	58.4	48.9
30°	31.9	37.2	41.9	36.6	32.4
32.5°	22.3	24.4	26.6	24.4	22.3
35°	16.5	17.5	18.6	17.5	15.9
37.5°	12.7	13.8	14.3	13.3	12.2
40°	10.6	11.2	11.7	11.2	10.6
42.5°	9.0	9.6	9.6	9.6	9.0
45°	8.0	8.0	8.5	8.0	8.0
47.5°	6.9	6.9	7.4	6.9	6.9
50°	6.4	6.4	6.4	6.4	6.4
52.5°	5.8	5.8	5.8	5.8	5.8
55°	5.3	5.3	5.3	5.3	5.3
57.5°	4.8	4.8	4.8	4.8	4.8
60°	4.2	4.2	4.2	4.2	4.2
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.1	2.1	2.1	2.1	2.1
75°	1.6	1.6	1.6	1.6	2.1
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5
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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