

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: P744836

Luminaire Tested: LD4D25D010-EU4DR1515309035-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744836
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: LD4D25D010-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: 2392.8 lumens
Efficiency: N/A
Efficacy: 95.3 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): 25.1
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

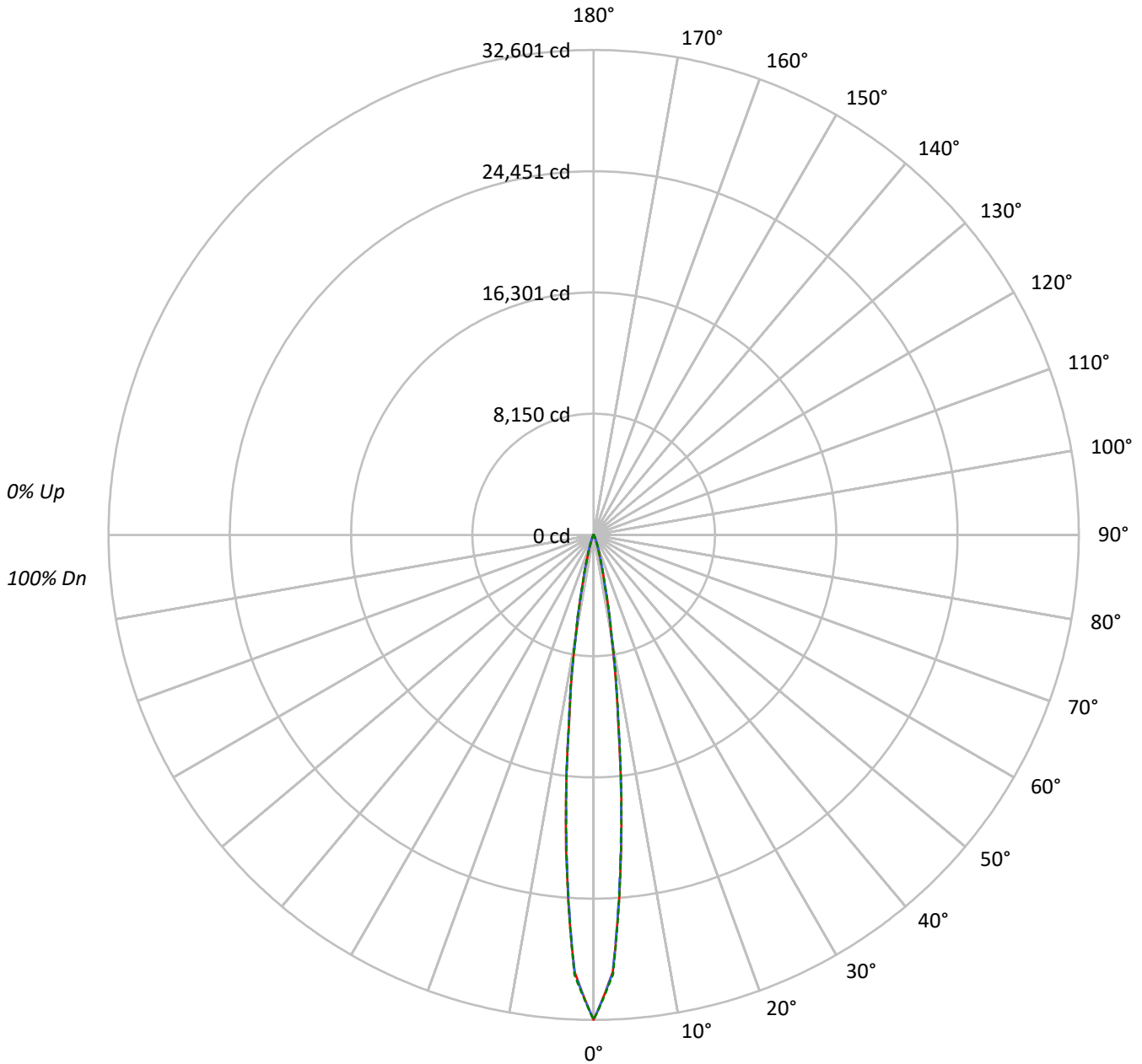


Downlight



TEST NUMBER: P744836
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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°	3668252	3668252	3668252
5°	2155641	2127733	2144563
10°	643356	647863	657781
15°	160025	163143	158114
20°	47883	55443	48897
25°	16881	21501	17091
30°	6200	8162	6305
35°	3108	3508	3006
40°	1960	2159	1960
45°	1449	1547	1449
50°	1154	1154	1154
55°	961	961	961
60°	772	772	772
65°	592	592	592
70°	505	505	505
75°	310	310	416
80°	221	221	221
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1547 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1551.9	64.9
10°-20°	638.3	26.7
20°-30°	126.8	5.3
30°-40°	31.6	1.3
40°-50°	16.6	0.7
50°-60°	12.3	0.5
60°-70°	8.7	0.4
70°-80°	4.9	0.2
80°-90°	1.5	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°	2317.0	96.8
0°-40°	2348.6	98.2
0°-60°	2377.6	99.4
0°-90°	2392.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2392.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32601	32601	32601	32601	32601	
5°	21211	20993	20936	21081	21102	1549
15°	1842	1877	1878	1845	1820	632
25°	217	246	276	244	219	114
35°	43	46	48	46	41	29
45°	21	21	22	21	21	16
55°	14	14	14	14	14	12
65°	8	8	8	8	8	9
75°	4	4	4	4	6	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32600.9	32600.9	32600.9	32600.9	32600.9
2.5°	29407.4	29432.2	29441.9	29470.9	29578.5
5°	21210.9	20992.8	20936.3	21081.2	21101.9
7.5°	12564.5	12608.7	12770.2	12806.0	12676.3
10°	6895.0	6951.6	6943.3	6993.0	7049.6
12.5°	3526.2	3482.0	3468.2	3524.8	3446.1
15°	1842.4	1876.9	1878.3	1845.2	1820.4
17.5°	990.9	1030.9	1097.2	1043.4	960.6
20°	585.2	621.0	677.6	633.5	597.6
22.5°	361.6	390.6	430.6	396.1	367.1
25°	216.7	245.7	276.0	244.3	219.4
27.5°	128.4	153.2	172.5	151.8	127.0
30°	82.8	96.6	109.0	95.2	84.2
32.5°	58.0	63.5	69.0	63.5	58.0
35°	42.8	45.5	48.3	45.5	41.4
37.5°	33.1	35.9	37.3	34.5	31.7
40°	27.6	29.0	30.4	29.0	27.6
42.5°	23.5	24.8	24.8	24.8	23.5
45°	20.7	20.7	22.1	20.7	20.7
47.5°	17.9	17.9	19.3	17.9	17.9
50°	16.6	16.6	16.6	16.6	16.6
52.5°	15.2	15.2	15.2	15.2	15.2
55°	13.8	13.8	13.8	13.8	13.8
57.5°	12.4	12.4	12.4	12.4	12.4
60°	11.0	11.0	11.0	11.0	11.0
62.5°	9.7	9.7	9.7	9.7	9.7
65°	8.3	8.3	8.3	8.3	8.3
67.5°	8.3	8.3	8.3	8.3	8.3
70°	6.9	6.9	6.9	6.9	6.9
72.5°	5.5	5.5	5.5	5.5	5.5
75°	4.1	4.1	4.1	4.1	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4
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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