

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: P744816

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744816
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-EU4DR1515309027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2453.3 lumens
Efficiency: N/A
Efficacy: 97.7 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): 25.1
Input Voltage (V): NR
Input Current (A_{in}): 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

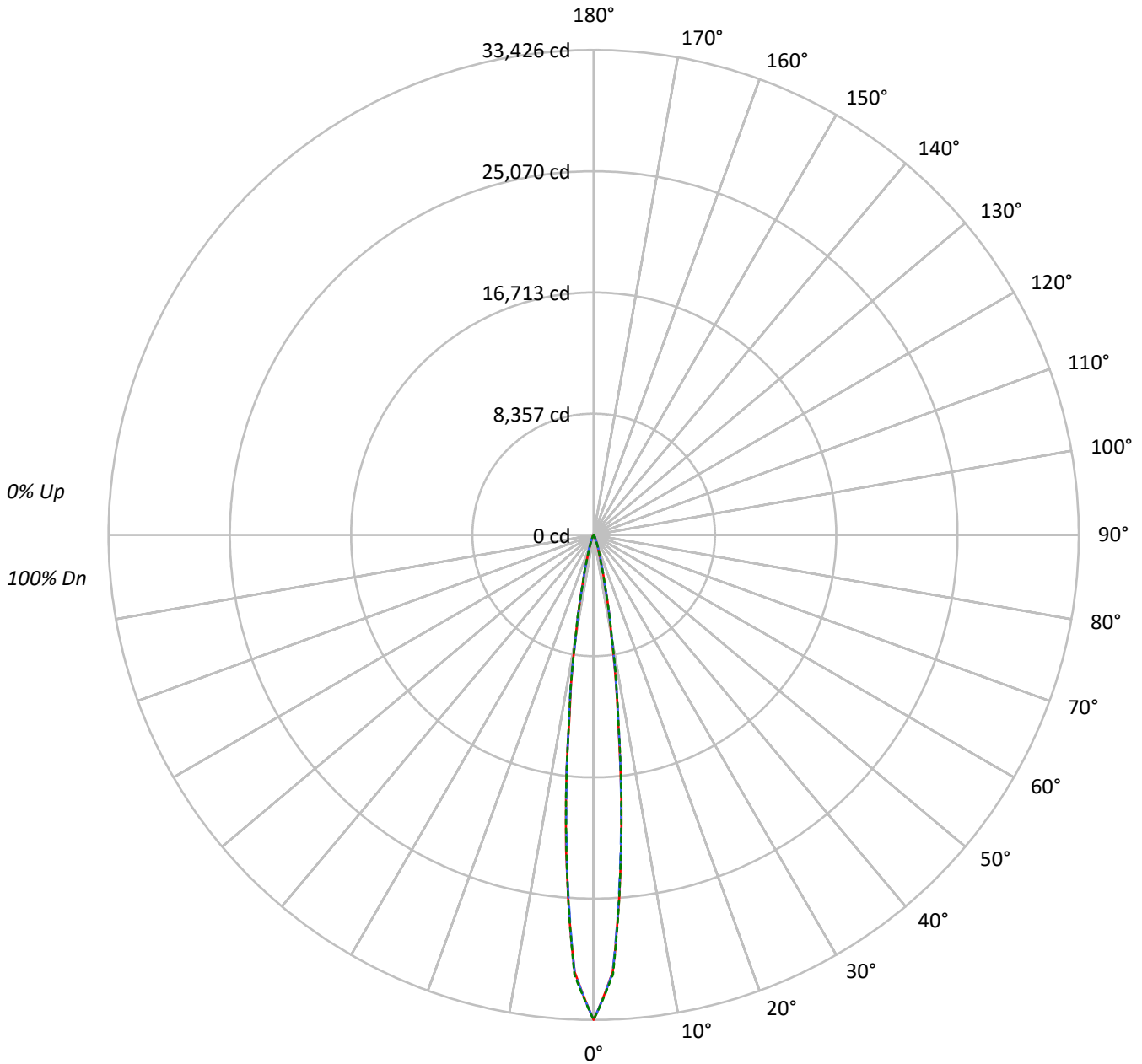


Downlight



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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°	3761047	3761047	3761047
5°	2210175	2181556	2198812
10°	659629	664257	674418
15°	164081	167269	162110
20°	49094	56850	50133
25°	17310	22046	17528
30°	6357	8372	6462
35°	3188	3595	3086
40°	2010	2209	2010
45°	1484	1582	1484
50°	1182	1182	1182
55°	988	988	988
60°	793	793	793
65°	607	607	607
70°	519	519	519
75°	317	317	431
80°	221	221	221
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1582 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1591.1	64.9
10°-20°	654.5	26.7
20°-30°	130.0	5.3
30°-40°	32.4	1.3
40°-50°	17.1	0.7
50°-60°	12.7	0.5
60°-70°	8.9	0.4
70°-80°	5.1	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°	2375.6	96.8
0°-40°	2408.1	98.2
0°-60°	2437.8	99.4
0°-90°	2453.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33426	33426	33426	33426	33426	
5°	21748	21524	21466	21614	21636	1588
15°	1889	1924	1926	1892	1866	648
25°	222	252	283	250	225	117
35°	44	47	50	47	42	30
45°	21	21	23	21	21	17
55°	14	14	14	14	14	13
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°	33425.6	33425.6	33425.6	33425.6	33425.6
2.5°	30151.3	30176.8	30186.7	30216.4	30326.7
5°	21747.5	21523.9	21465.9	21614.5	21635.7
7.5°	12882.4	12927.6	13093.2	13130.0	12997.0
10°	7069.4	7127.5	7119.0	7169.9	7227.9
12.5°	3615.4	3570.1	3555.9	3614.0	3533.3
15°	1889.1	1924.4	1925.8	1891.9	1866.4
17.5°	1016.0	1057.0	1124.9	1069.8	984.9
20°	600.0	636.8	694.8	649.5	612.7
22.5°	370.7	400.5	441.5	406.1	376.4
25°	222.2	251.9	283.0	250.5	225.0
27.5°	131.6	157.1	176.9	155.7	130.2
30°	84.9	99.1	111.8	97.6	86.3
32.5°	59.4	65.1	70.8	65.1	59.4
35°	43.9	46.7	49.5	46.7	42.5
37.5°	34.0	36.8	38.2	35.4	32.5
40°	28.3	29.7	31.1	29.7	28.3
42.5°	24.1	25.5	25.5	25.5	24.1
45°	21.2	21.2	22.6	21.2	21.2
47.5°	18.4	18.4	19.8	18.4	18.4
50°	17.0	17.0	17.0	17.0	17.0
52.5°	15.6	15.6	15.6	15.6	15.6
55°	14.2	14.2	14.2	14.2	14.2
57.5°	12.7	12.7	12.7	12.7	12.7
60°	11.3	11.3	11.3	11.3	11.3
62.5°	9.9	9.9	9.9	9.9	9.9
65°	8.5	8.5	8.5	8.5	8.5
67.5°	8.5	8.5	8.5	8.5	8.5
70°	7.1	7.1	7.1	7.1	7.1
72.5°	5.7	5.7	5.7	5.7	5.7
75°	4.2	4.2	4.2	4.2	5.7
77.5°	4.2	4.2	4.2	4.2	4.2
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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