

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: P744817

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744817
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-EU4DR1515309027-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 2576.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

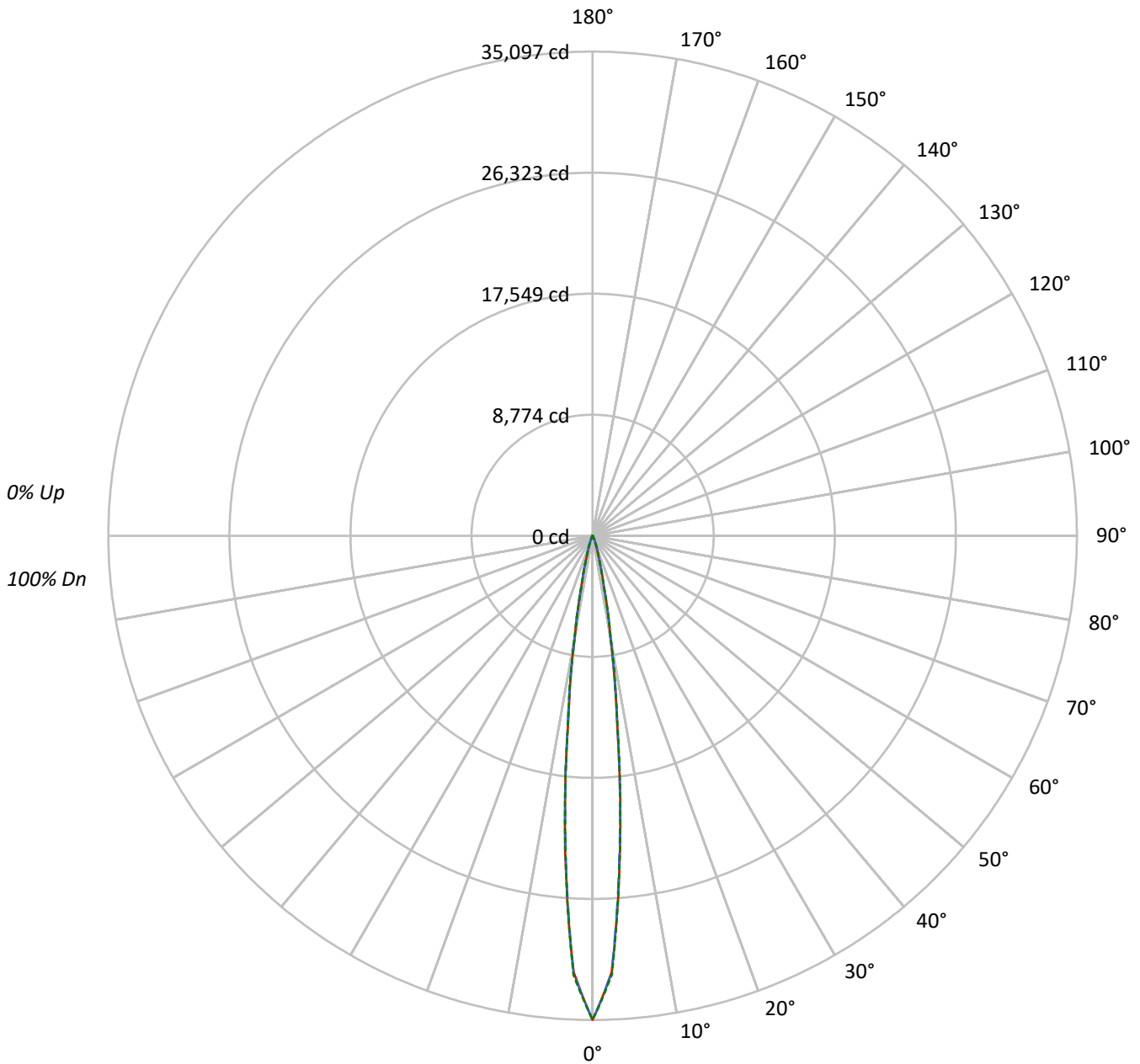


Downlight



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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°	3949101	3949101	3949101
5°	2320676	2290634	2308755
10°	692613	697465	708139
15°	172281	175633	170213
20°	51548	59690	52637
25°	18174	23152	18400
30°	6672	8791	6784
35°	3348	3776	3239
40°	2109	2322	2109
45°	1561	1666	1561
50°	1238	1238	1238
55°	1037	1037	1037
60°	835	835	835
65°	635	635	635
70°	541	541	541
75°	340	340	446
80°	236	236	236
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1666 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1670.7	64.9
10°-20°	687.2	26.7
20°-30°	136.5	5.3
30°-40°	34.1	1.3
40°-50°	17.9	0.7
50°-60°	13.3	0.5
60°-70°	9.4	0.4
70°-80°	5.3	0.2
80°-90°	1.6	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°	2494.4	96.8
0°-40°	2528.4	98.2
0°-60°	2559.6	99.4
0°-90°	2576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35097	35097	35097	35097	35097	
5°	22835	22600	22539	22695	22718	1668
15°	1984	2021	2022	1986	1960	680
25°	233	264	297	263	236	123
35°	46	49	52	49	45	31
45°	22	22	24	22	22	17
55°	15	15	15	15	15	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	35096.9	35096.9	35096.9	35096.9	35096.9
2.5°	31658.8	31685.6	31696.0	31727.2	31843.1
5°	22834.8	22600.1	22539.2	22695.2	22717.5
7.5°	13526.5	13574.0	13747.9	13786.5	13646.8
10°	7422.9	7483.8	7474.9	7528.4	7589.3
12.5°	3796.1	3748.6	3733.7	3794.7	3710.0
15°	1983.5	2020.7	2022.1	1986.5	1959.7
17.5°	1066.8	1109.9	1181.2	1123.2	1034.1
20°	630.0	668.6	729.5	682.0	643.3
22.5°	389.3	420.5	463.6	426.4	395.2
25°	233.3	264.5	297.2	263.0	236.2
27.5°	138.2	164.9	185.7	163.4	136.7
30°	89.1	104.0	117.4	102.5	90.6
32.5°	62.4	68.3	74.3	68.3	62.4
35°	46.1	49.0	52.0	49.0	44.6
37.5°	35.7	38.6	40.1	37.1	34.2
40°	29.7	31.2	32.7	31.2	29.7
42.5°	25.3	26.7	26.7	26.7	25.3
45°	22.3	22.3	23.8	22.3	22.3
47.5°	19.3	19.3	20.8	19.3	19.3
50°	17.8	17.8	17.8	17.8	17.8
52.5°	16.3	16.3	16.3	16.3	16.3
55°	14.9	14.9	14.9	14.9	14.9
57.5°	13.4	13.4	13.4	13.4	13.4
60°	11.9	11.9	11.9	11.9	11.9
62.5°	10.4	10.4	10.4	10.4	10.4
65°	8.9	8.9	8.9	8.9	8.9
67.5°	8.9	8.9	8.9	8.9	8.9
70°	7.4	7.4	7.4	7.4	7.4
72.5°	5.9	5.9	5.9	5.9	5.9
75°	4.5	4.5	4.5	4.5	5.9
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5
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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