

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P744842

Luminaire Tested: LD4D25D010-EU4DR1515309035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744842
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-EU4DR1515309035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2674.2 lumens
Efficiency: N/A
Efficacy: 106.5 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): 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

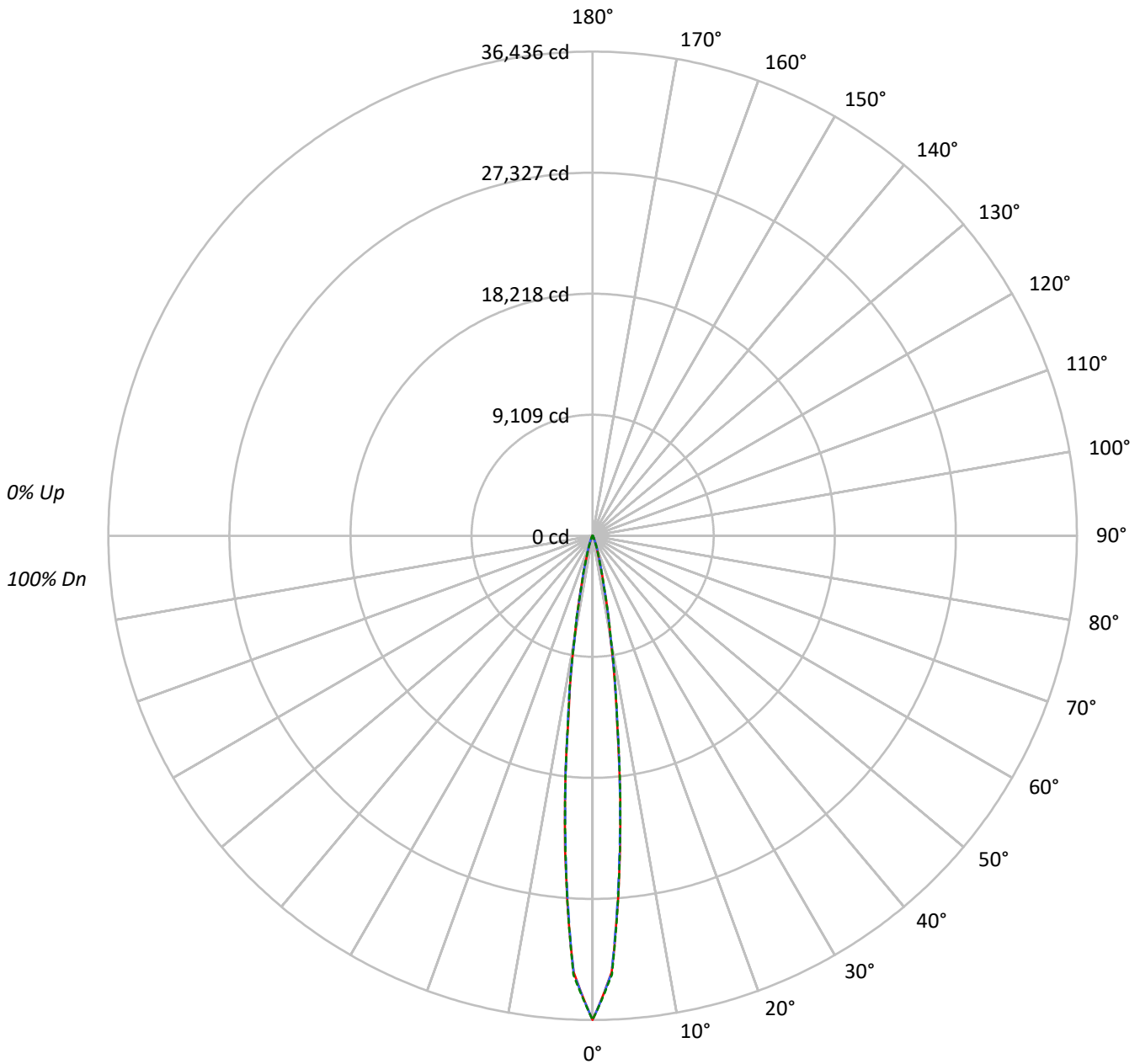


Downlight



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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°	4099721	4099721	4099721
5°	2409194	2377994	2396806
10°	719028	724067	735152
15°	178856	182339	176710
20°	53512	61964	54649
25°	18868	24032	19101
30°	6927	9128	7046
35°	3471	3921	3362
40°	2187	2407	2187
45°	1617	1729	1617
50°	1286	1286	1286
55°	1072	1072	1072
60°	864	864	864
65°	664	664	664
70°	563	563	563
75°	348	348	469
80°	244	244	244
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1729 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1734.4	64.9
10°-20°	713.4	26.7
20°-30°	141.7	5.3
30°-40°	35.4	1.3
40°-50°	18.6	0.7
50°-60°	13.8	0.5
60°-70°	9.8	0.4
70°-80°	5.5	0.2
80°-90°	1.7	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°	2589.5	96.8
0°-40°	2624.9	98.2
0°-60°	2657.3	99.4
0°-90°	2674.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2674.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36436	36436	36436	36436	36436	
5°	23706	23462	23399	23561	23584	1731
15°	2059	2098	2099	2062	2034	706
25°	242	275	308	273	245	127
35°	48	51	54	51	46	32
45°	23	23	25	23	23	18
55°	15	15	15	15	15	14
65°	9	9	9	9	9	10
75°	5	5	5	5	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°	36435.5	36435.5	36435.5	36435.5	36435.5
2.5°	32866.3	32894.1	32904.9	32937.3	33057.6
5°	23705.8	23462.0	23398.8	23560.8	23583.9
7.5°	14042.4	14091.7	14272.2	14312.3	14167.3
10°	7706.0	7769.3	7760.0	7815.5	7878.8
12.5°	3940.9	3891.6	3876.2	3939.4	3851.5
15°	2059.2	2097.7	2099.3	2062.2	2034.5
17.5°	1107.5	1152.2	1226.2	1166.1	1073.5
20°	654.0	694.1	757.3	708.0	667.9
22.5°	404.1	436.5	481.2	442.7	410.3
25°	242.2	274.6	308.5	273.0	245.2
27.5°	143.4	171.2	192.8	169.7	141.9
30°	92.5	108.0	121.9	106.4	94.1
32.5°	64.8	71.0	77.1	71.0	64.8
35°	47.8	50.9	54.0	50.9	46.3
37.5°	37.0	40.1	41.6	38.6	35.5
40°	30.8	32.4	33.9	32.4	30.8
42.5°	26.2	27.8	27.8	27.8	26.2
45°	23.1	23.1	24.7	23.1	23.1
47.5°	20.1	20.1	21.6	20.1	20.1
50°	18.5	18.5	18.5	18.5	18.5
52.5°	17.0	17.0	17.0	17.0	17.0
55°	15.4	15.4	15.4	15.4	15.4
57.5°	13.9	13.9	13.9	13.9	13.9
60°	12.3	12.3	12.3	12.3	12.3
62.5°	10.8	10.8	10.8	10.8	10.8
65°	9.3	9.3	9.3	9.3	9.3
67.5°	9.3	9.3	9.3	9.3	9.3
70°	7.7	7.7	7.7	7.7	7.7
72.5°	6.2	6.2	6.2	6.2	6.2
75°	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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