

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: P744867

Luminaire Tested: LD4D25D010-EU4DR1515309050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744867
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-EU4DR1515309050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2548.9 lumens
Efficiency: N/A
Efficacy: 101.5 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

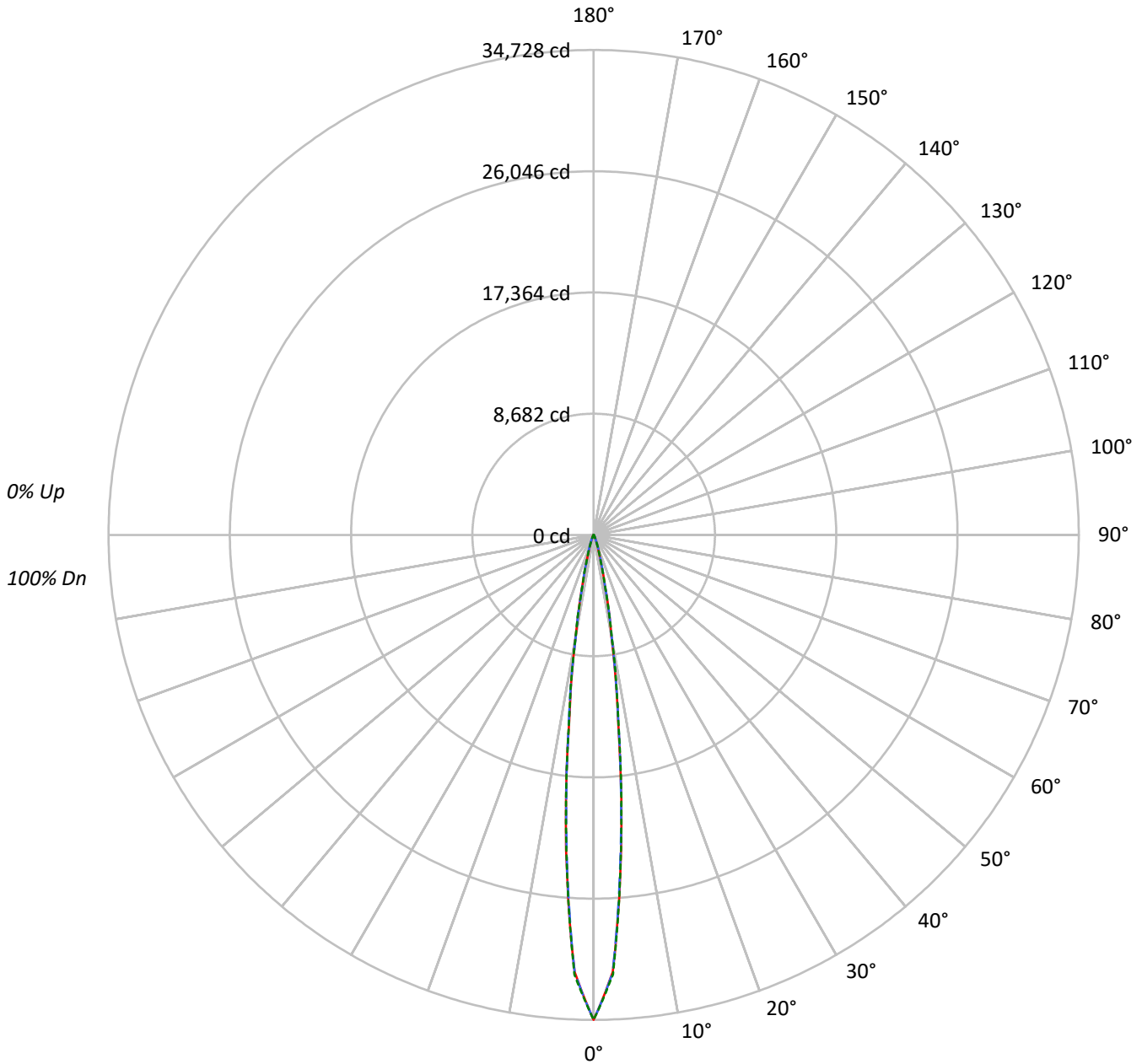


Downlight



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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°	3907559	3907559	3907559
5°	2296264	2266528	2284465
10°	685326	690131	700693
15°	170465	173792	168424
20°	51000	59060	52088
25°	17979	22903	18213
30°	6605	8694	6717
35°	3311	3740	3203
40°	2088	2294	2088
45°	1547	1645	1547
50°	1224	1224	1224
55°	1023	1023	1023
60°	828	828	828
65°	628	628	628
70°	541	541	541
75°	333	333	446
80°	229	229	229
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1653.1	64.9
10°-20°	680.0	26.7
20°-30°	135.1	5.3
30°-40°	33.7	1.3
40°-50°	17.7	0.7
50°-60°	13.1	0.5
60°-70°	9.3	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°	2468.1	96.8
0°-40°	2501.8	98.2
0°-60°	2532.7	99.4
0°-90°	2548.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34728	34728	34728	34728	34728	
5°	22595	22362	22302	22456	22478	1650
15°	1963	1999	2001	1966	1939	673
25°	231	262	294	260	234	121
35°	46	48	52	48	44	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°	34727.7	34727.7	34727.7	34727.7	34727.7
2.5°	31325.8	31352.2	31362.5	31393.4	31508.1
5°	22594.6	22362.3	22302.0	22456.4	22478.5
7.5°	13384.2	13431.2	13603.2	13641.4	13503.2
10°	7344.8	7405.1	7396.3	7449.2	7509.5
12.5°	3756.2	3709.2	3694.5	3754.7	3670.9
15°	1962.6	1999.4	2000.9	1965.6	1939.1
17.5°	1055.6	1098.2	1168.8	1111.4	1023.2
20°	623.3	661.6	721.8	674.8	636.6
22.5°	385.2	416.0	458.7	421.9	391.1
25°	230.8	261.7	294.0	260.2	233.8
27.5°	136.7	163.2	183.8	161.7	135.3
30°	88.2	102.9	116.1	101.4	89.7
32.5°	61.7	67.6	73.5	67.6	61.7
35°	45.6	48.5	51.5	48.5	44.1
37.5°	35.3	38.2	39.7	36.8	33.8
40°	29.4	30.9	32.3	30.9	29.4
42.5°	25.0	26.5	26.5	26.5	25.0
45°	22.1	22.1	23.5	22.1	22.1
47.5°	19.1	19.1	20.6	19.1	19.1
50°	17.6	17.6	17.6	17.6	17.6
52.5°	16.2	16.2	16.2	16.2	16.2
55°	14.7	14.7	14.7	14.7	14.7
57.5°	13.2	13.2	13.2	13.2	13.2
60°	11.8	11.8	11.8	11.8	11.8
62.5°	10.3	10.3	10.3	10.3	10.3
65°	8.8	8.8	8.8	8.8	8.8
67.5°	8.8	8.8	8.8	8.8	8.8
70°	7.4	7.4	7.4	7.4	7.4
72.5°	5.9	5.9	5.9	5.9	5.9
75°	4.4	4.4	4.4	4.4	5.9
77.5°	4.4	4.4	4.4	4.4	4.4
80°	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9
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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