

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: P744850

Luminaire Tested: LD4D25D010-EU4DR1515309040-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744850
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-EU4DR1515309040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2439.8 lumens
Efficiency: N/A
Efficacy: 97.2 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

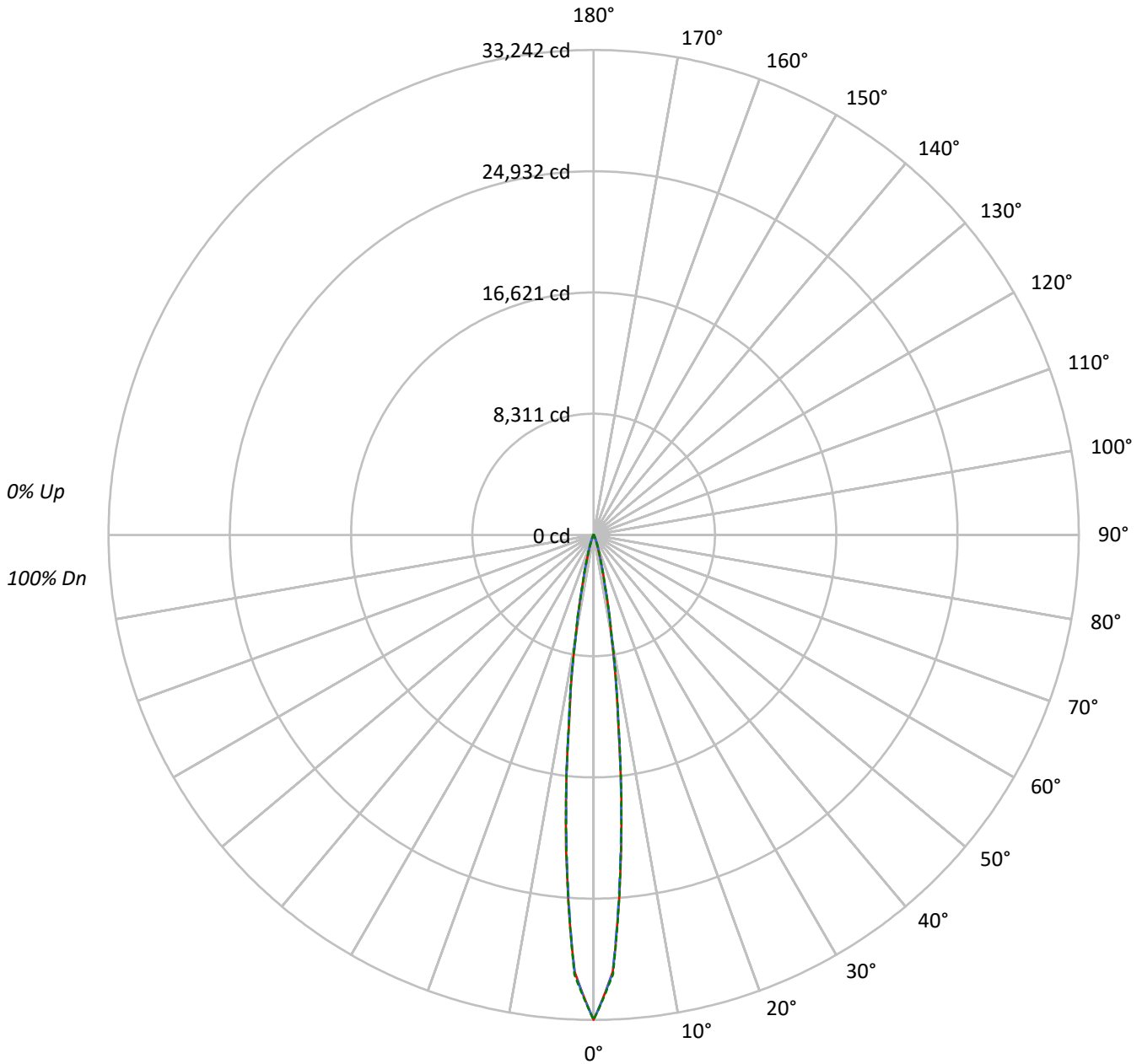


Downlight



TEST NUMBER: P744850
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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°	3740332	3740332	3740332
5°	2197999	2169533	2186698
10°	655999	660599	670704
15°	163169	166348	161215
20°	48824	56531	49855
25°	17208	21921	17426
30°	6320	8327	6425
35°	3166	3580	3065
40°	1996	2201	1996
45°	1477	1575	1477
50°	1175	1175	1175
55°	981	981	981
60°	793	793	793
65°	600	600	600
70°	512	512	512
75°	317	317	423
80°	221	221	221
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1582.4	64.9
10°-20°	650.9	26.7
20°-30°	129.3	5.3
30°-40°	32.3	1.3
40°-50°	17.0	0.7
50°-60°	12.6	0.5
60°-70°	8.9	0.4
70°-80°	5.0	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°	2362.5	96.8
0°-40°	2394.8	98.2
0°-60°	2424.3	99.4
0°-90°	2439.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33242	33242	33242	33242	33242	
5°	21628	21405	21348	21495	21516	1579
15°	1879	1914	1915	1882	1856	644
25°	221	250	281	249	224	116
35°	44	46	49	46	42	30
45°	21	21	22	21	21	16
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°	33241.5	33241.5	33241.5	33241.5	33241.5
2.5°	29985.2	30010.5	30020.3	30049.9	30159.7
5°	21627.7	21405.3	21347.6	21495.4	21516.5
7.5°	12811.4	12856.4	13021.1	13057.6	12925.4
10°	7030.5	7088.2	7079.8	7130.4	7188.1
12.5°	3595.5	3550.4	3536.4	3594.1	3513.8
15°	1878.6	1913.8	1915.2	1881.5	1856.1
17.5°	1010.4	1051.2	1118.7	1063.9	979.4
20°	596.7	633.3	690.9	645.9	609.3
22.5°	368.7	398.2	439.1	403.9	374.3
25°	220.9	250.5	281.4	249.1	223.7
27.5°	130.9	156.2	175.9	154.8	129.5
30°	84.4	98.5	111.2	97.1	85.8
32.5°	59.1	64.7	70.4	64.7	59.1
35°	43.6	46.4	49.3	46.4	42.2
37.5°	33.8	36.6	38.0	35.2	32.4
40°	28.1	29.6	31.0	29.6	28.1
42.5°	23.9	25.3	25.3	25.3	23.9
45°	21.1	21.1	22.5	21.1	21.1
47.5°	18.3	18.3	19.7	18.3	18.3
50°	16.9	16.9	16.9	16.9	16.9
52.5°	15.5	15.5	15.5	15.5	15.5
55°	14.1	14.1	14.1	14.1	14.1
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°	8.4	8.4	8.4	8.4	8.4
67.5°	8.4	8.4	8.4	8.4	8.4
70°	7.0	7.0	7.0	7.0	7.0
72.5°	5.6	5.6	5.6	5.6	5.6
75°	4.2	4.2	4.2	4.2	5.6
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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