

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: P744863

Luminaire Tested: LD4D25D010-EU4DR1515309050-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744863
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-EU4DR1515309050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2411.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

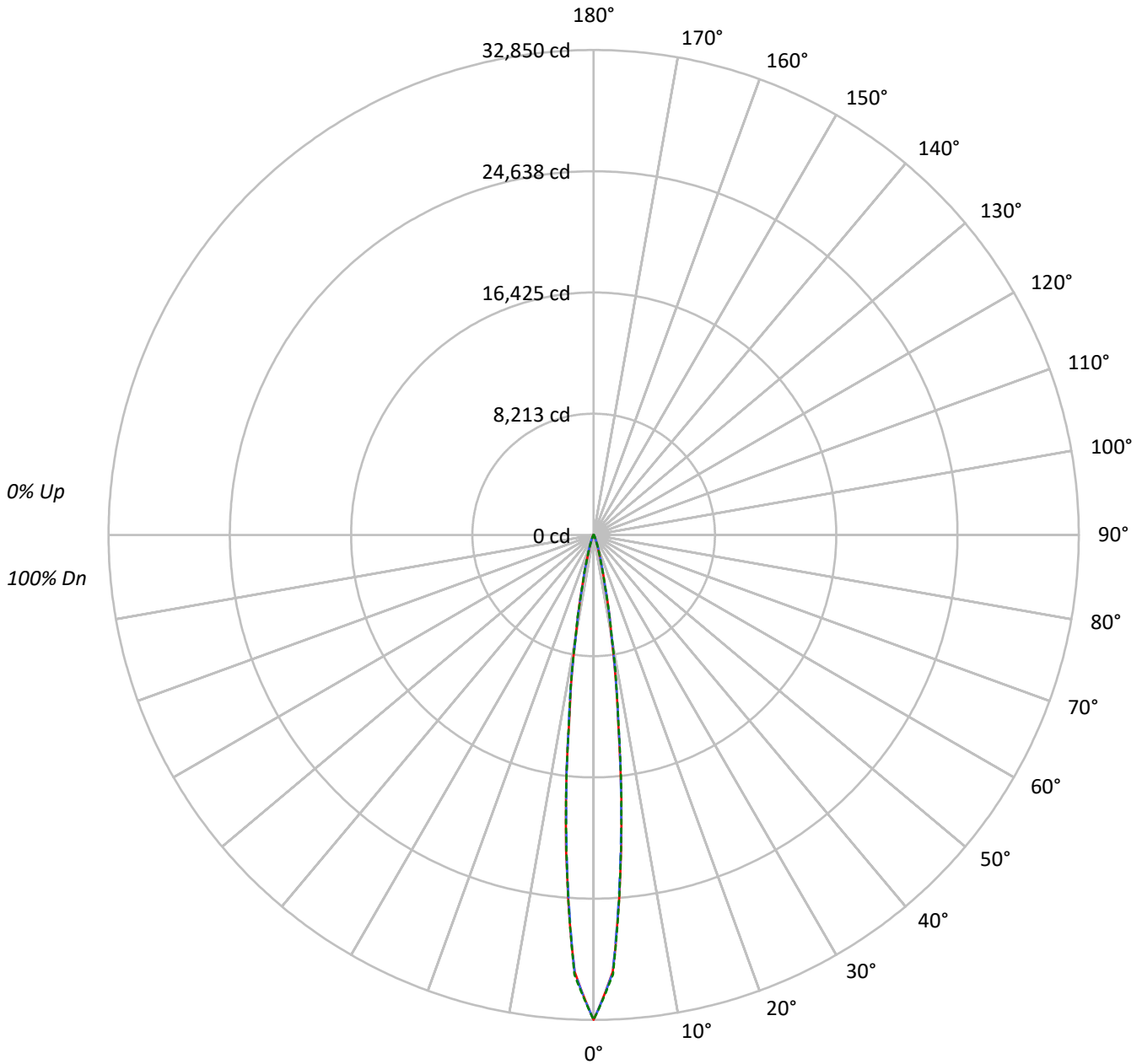


Downlight



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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°	3696224	3696224	3696224
5°	2172074	2143953	2160915
10°	648264	652808	662792
15°	161250	164385	159313
20°	48243	55869	49266
25°	17006	21664	17224
30°	6245	8229	6350
35°	3130	3537	3028
40°	1974	2173	1974
45°	1463	1561	1463
50°	1161	1161	1161
55°	968	968	968
60°	779	779	779
65°	592	592	592
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: 1561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1563.7	64.9
10°-20°	643.2	26.7
20°-30°	127.7	5.3
30°-40°	31.9	1.3
40°-50°	16.8	0.7
50°-60°	12.4	0.5
60°-70°	8.7	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°	2334.6	96.8
0°-40°	2366.5	98.2
0°-60°	2395.7	99.4
0°-90°	2411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32850	32850	32850	32850	32850	
5°	21373	21153	21096	21242	21263	1561
15°	1856	1891	1893	1859	1834	637
25°	218	248	278	246	221	115
35°	43	46	49	46	42	29
45°	21	21	22	21	21	16
55°	14	14	14	14	14	12
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°	32849.5	32849.5	32849.5	32849.5	32849.5
2.5°	29631.6	29656.6	29666.3	29695.6	29804.0
5°	21372.6	21152.9	21095.9	21241.9	21262.8
7.5°	12660.3	12704.8	12867.5	12903.7	12773.0
10°	6947.6	7004.6	6996.3	7046.3	7103.3
12.5°	3553.1	3508.6	3494.7	3551.7	3472.4
15°	1856.5	1891.3	1892.6	1859.3	1834.2
17.5°	998.5	1038.8	1105.6	1051.3	967.9
20°	589.6	625.8	682.8	638.3	602.1
22.5°	364.3	393.5	433.9	399.1	369.9
25°	218.3	247.5	278.1	246.1	221.1
27.5°	129.3	154.4	173.8	153.0	127.9
30°	83.4	97.3	109.9	96.0	84.8
32.5°	58.4	64.0	69.5	64.0	58.4
35°	43.1	45.9	48.7	45.9	41.7
37.5°	33.4	36.2	37.5	34.8	32.0
40°	27.8	29.2	30.6	29.2	27.8
42.5°	23.6	25.0	25.0	25.0	23.6
45°	20.9	20.9	22.3	20.9	20.9
47.5°	18.1	18.1	19.5	18.1	18.1
50°	16.7	16.7	16.7	16.7	16.7
52.5°	15.3	15.3	15.3	15.3	15.3
55°	13.9	13.9	13.9	13.9	13.9
57.5°	12.5	12.5	12.5	12.5	12.5
60°	11.1	11.1	11.1	11.1	11.1
62.5°	9.7	9.7	9.7	9.7	9.7
65°	8.3	8.3	8.3	8.3	8.3
67.5°	8.3	8.3	8.3	8.3	8.3
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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