

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: P744826

Luminaire Tested: LD4D25D010-EU4DR1515309030-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744826
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-EU4DR1515309030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.8 lumens
Efficiency: N/A
Efficacy: 100.7 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

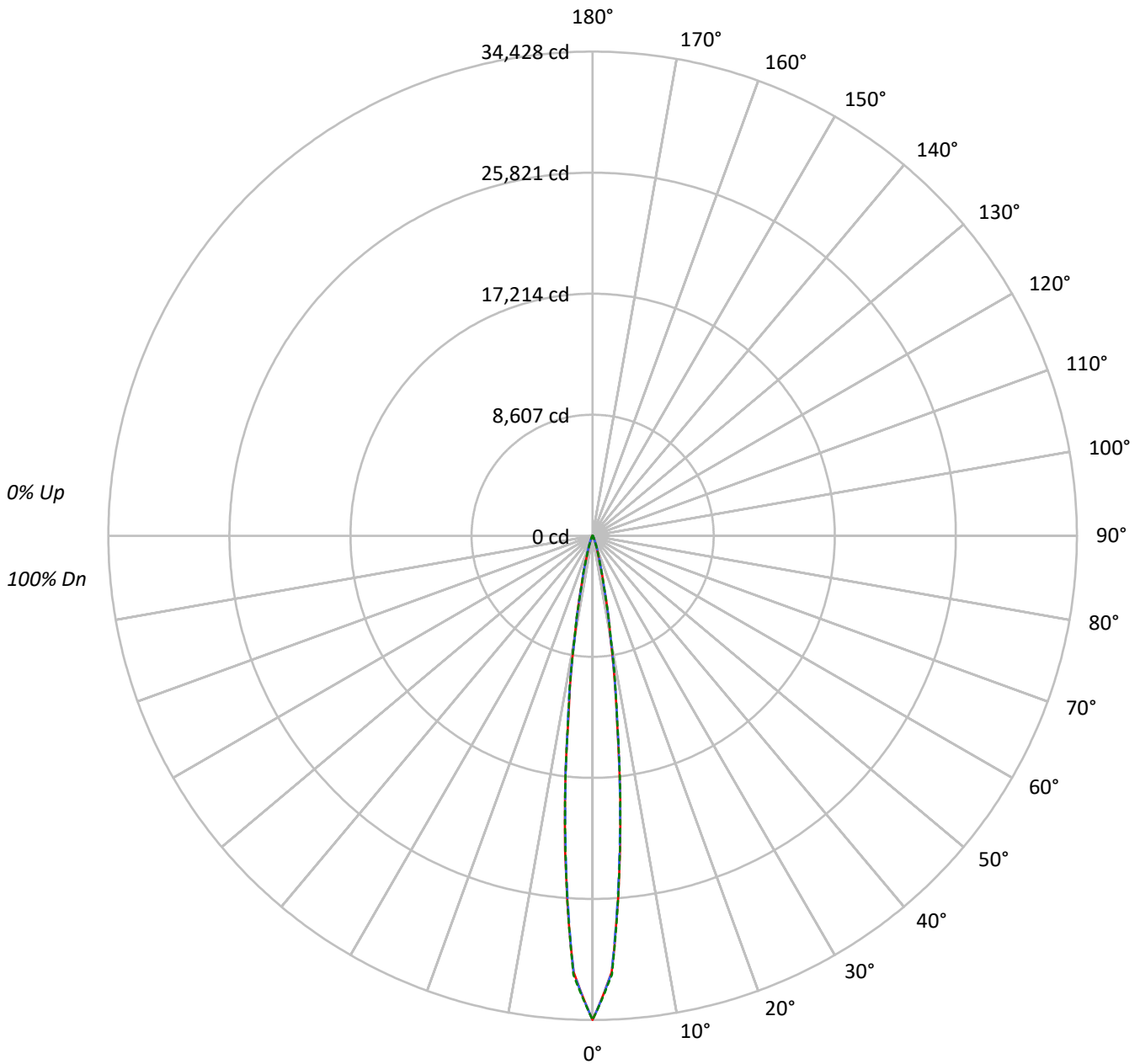


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3873792	3873792	3873792
5°	2276426	2246954	2264729
10°	679410	684169	694638
15°	168997	172289	166974
20°	50566	58552	51638
25°	17824	22708	18050
30°	6545	8619	6657
35°	3282	3704	3173
40°	2067	2280	2067
45°	1533	1631	1533
50°	1217	1217	1217
55°	1016	1016	1016
60°	821	821	821
65°	621	621	621
70°	534	534	534
75°	333	333	438
80°	229	229	229
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1631 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1638.8	64.9
10°-20°	674.1	26.7
20°-30°	133.9	5.3
30°-40°	33.4	1.3
40°-50°	17.6	0.7
50°-60°	13.0	0.5
60°-70°	9.2	0.4
70°-80°	5.2	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°	2446.8	96.8
0°-40°	2480.2	98.2
0°-60°	2510.8	99.4
0°-90°	2526.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34428	34428	34428	34428	34428	
5°	22399	22169	22109	22262	22284	1636
15°	1946	1982	1984	1949	1922	667
25°	229	259	292	258	232	120
35°	45	48	51	48	44	31
45°	22	22	23	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°	34427.6	34427.6	34427.6	34427.6	34427.6
2.5°	31055.1	31081.4	31091.6	31122.2	31235.8
5°	22399.4	22169.1	22109.4	22262.4	22284.3
7.5°	13268.5	13315.2	13485.7	13523.6	13386.6
10°	7281.4	7341.1	7332.4	7384.8	7444.6
12.5°	3723.8	3677.1	3662.5	3722.3	3639.2
15°	1945.7	1982.1	1983.6	1948.6	1922.4
17.5°	1046.4	1088.7	1158.7	1101.8	1014.4
20°	618.0	655.8	715.6	669.0	631.1
22.5°	381.8	412.5	454.7	418.3	387.7
25°	228.8	259.4	291.5	258.0	231.7
27.5°	135.5	161.8	182.2	160.3	134.1
30°	87.4	102.0	115.1	100.6	88.9
32.5°	61.2	67.0	72.9	67.0	61.2
35°	45.2	48.1	51.0	48.1	43.7
37.5°	35.0	37.9	39.4	36.4	33.5
40°	29.1	30.6	32.1	30.6	29.1
42.5°	24.8	26.2	26.2	26.2	24.8
45°	21.9	21.9	23.3	21.9	21.9
47.5°	18.9	18.9	20.4	18.9	18.9
50°	17.5	17.5	17.5	17.5	17.5
52.5°	16.0	16.0	16.0	16.0	16.0
55°	14.6	14.6	14.6	14.6	14.6
57.5°	13.1	13.1	13.1	13.1	13.1
60°	11.7	11.7	11.7	11.7	11.7
62.5°	10.2	10.2	10.2	10.2	10.2
65°	8.7	8.7	8.7	8.7	8.7
67.5°	8.7	8.7	8.7	8.7	8.7
70°	7.3	7.3	7.3	7.3	7.3
72.5°	5.8	5.8	5.8	5.8	5.8
75°	4.4	4.4	4.4	4.4	5.8
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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