

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: P745760

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745760
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: LD4D30D010-EU4DR1515309030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2527.7 lumens
Efficiency: N/A
Efficacy: 87.2 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): 29
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

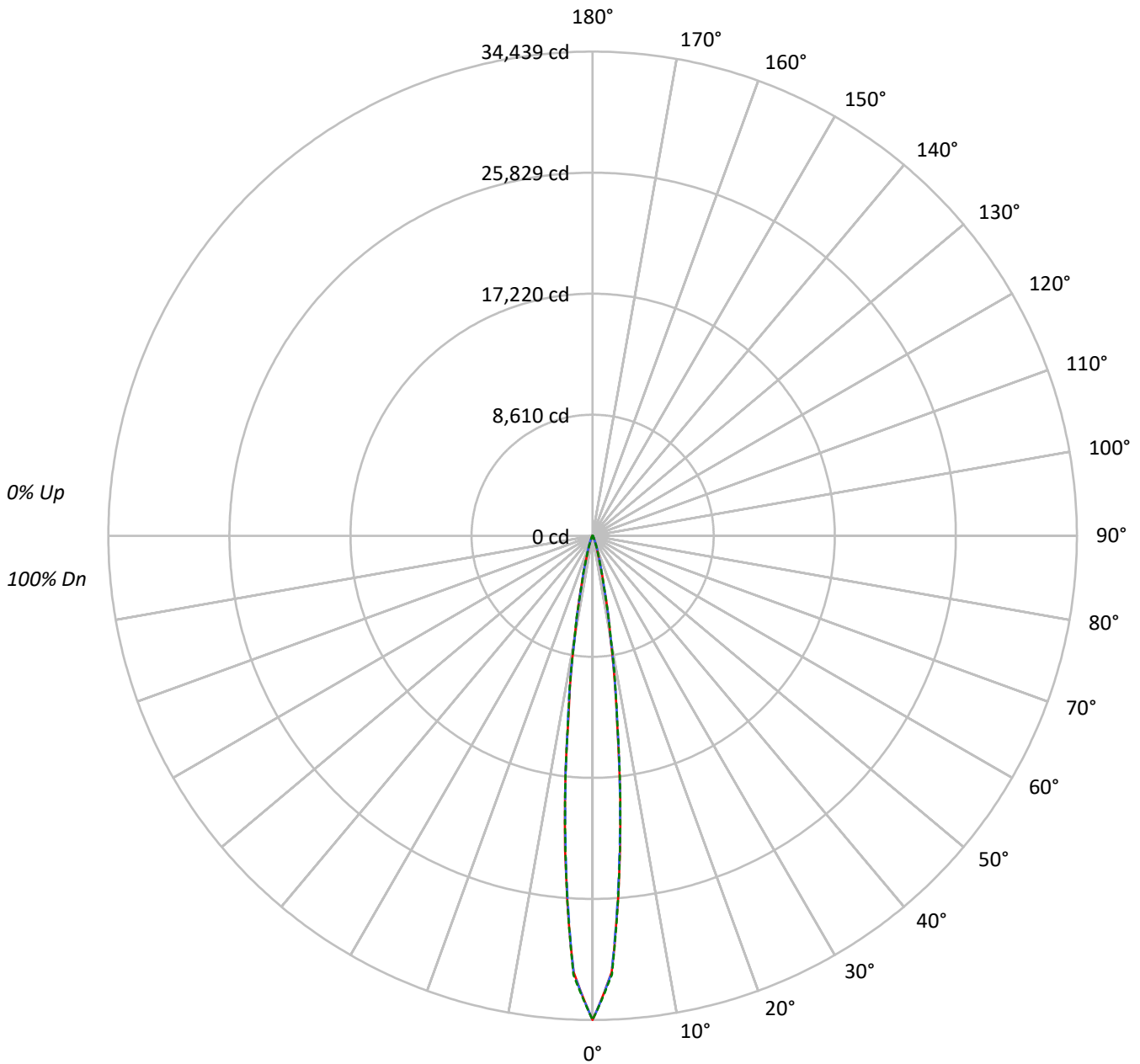


Downlight



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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°	3875120	3875120	3875120
5°	2277209	2247716	2265501
10°	679643	684402	694871
15°	169049	172350	167026
20°	50583	58569	51655
25°	17831	22716	18057
30°	6552	8626	6657
35°	3282	3704	3173
40°	2074	2280	2074
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°	1639.4	64.9
10°-20°	674.3	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°	2447.7	96.8
0°-40°	2481.1	98.2
0°-60°	2511.7	99.4
0°-90°	2527.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2527.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34439	34439	34439	34439	34439	
5°	22407	22177	22117	22270	22292	1636
15°	1946	1983	1984	1949	1923	667
25°	229	260	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°	34439.4	34439.4	34439.4	34439.4	34439.4
2.5°	31065.8	31092.0	31102.2	31132.8	31246.5
5°	22407.1	22176.7	22116.9	22270.0	22291.9
7.5°	13273.1	13319.7	13490.3	13528.2	13391.2
10°	7283.9	7343.6	7334.9	7387.4	7447.1
12.5°	3725.0	3678.4	3663.8	3723.6	3640.5
15°	1946.3	1982.8	1984.3	1949.3	1923.0
17.5°	1046.8	1089.1	1159.1	1102.2	1014.7
20°	618.2	656.1	715.8	669.2	631.3
22.5°	382.0	412.6	454.9	418.4	387.8
25°	228.9	259.5	291.6	258.1	231.8
27.5°	135.6	161.8	182.2	160.4	134.1
30°	87.5	102.1	115.2	100.6	88.9
32.5°	61.2	67.1	72.9	67.1	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°	29.2	30.6	32.1	30.6	29.2
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°	19.0	19.0	20.4	19.0	19.0
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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