

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: P745734

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745734
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-EU4DR1515309024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2205.2 lumens
Efficiency: N/A
Efficacy: 76.0 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

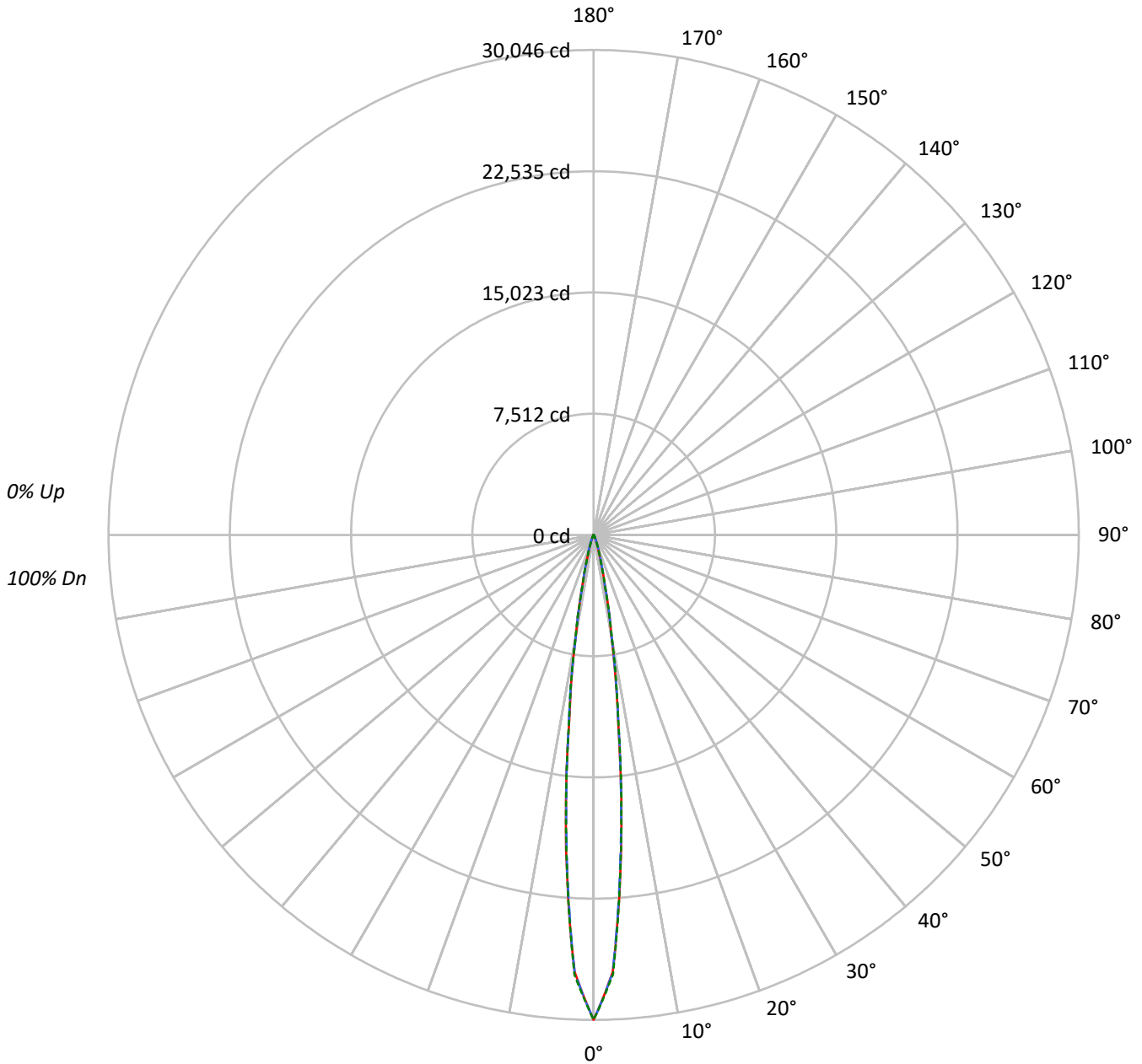


Downlight



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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	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°	3380786	3380786	3380786
5°	1986703	1960981	1976499
10°	592942	597094	606229
15°	147492	150358	145720
20°	44127	51098	45068
25°	15557	19818	15752
30°	5713	7526	5811
35°	2861	3232	2774
40°	1804	1988	1804
45°	1337	1428	1337
50°	1064	1064	1064
55°	884	884	884
60°	716	716	716
65°	542	542	542
70°	468	468	468
75°	287	287	385
80°	197	197	197
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1430.3	64.9
10°-20°	588.3	26.7
20°-30°	116.9	5.3
30°-40°	29.2	1.3
40°-50°	15.3	0.7
50°-60°	11.4	0.5
60°-70°	8.0	0.4
70°-80°	4.6	0.2
80°-90°	1.4	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°	2135.4	96.8
0°-40°	2164.6	98.2
0°-60°	2191.3	99.4
0°-90°	2205.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30046	30046	30046	30046	30046	
5°	19549	19348	19296	19429	19448	1428
15°	1698	1730	1731	1701	1678	582
25°	200	226	254	225	202	105
35°	39	42	44	42	38	27
45°	19	19	20	19	19	15
55°	13	13	13	13	13	11
65°	8	8	8	8	8	8
75°	4	4	4	4	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30046.1	30046.1	30046.1	30046.1	30046.1
2.5°	27102.8	27125.7	27134.6	27161.3	27260.5
5°	19548.6	19347.7	19295.5	19429.1	19448.2
7.5°	11579.9	11620.6	11769.4	11802.4	11682.9
10°	6354.7	6406.8	6399.2	6445.0	6497.1
12.5°	3249.8	3209.1	3196.4	3248.6	3176.1
15°	1698.1	1729.9	1731.1	1700.6	1677.7
17.5°	913.3	950.1	1011.2	961.6	885.3
20°	539.3	572.4	624.5	583.8	550.8
22.5°	333.3	360.0	396.8	365.1	338.3
25°	199.7	226.4	254.4	225.1	202.2
27.5°	118.3	141.2	159.0	139.9	117.0
30°	76.3	89.0	100.5	87.8	77.6
32.5°	53.4	58.5	63.6	58.5	53.4
35°	39.4	42.0	44.5	42.0	38.2
37.5°	30.5	33.1	34.3	31.8	29.3
40°	25.4	26.7	28.0	26.7	25.4
42.5°	21.6	22.9	22.9	22.9	21.6
45°	19.1	19.1	20.4	19.1	19.1
47.5°	16.5	16.5	17.8	16.5	16.5
50°	15.3	15.3	15.3	15.3	15.3
52.5°	14.0	14.0	14.0	14.0	14.0
55°	12.7	12.7	12.7	12.7	12.7
57.5°	11.4	11.4	11.4	11.4	11.4
60°	10.2	10.2	10.2	10.2	10.2
62.5°	8.9	8.9	8.9	8.9	8.9
65°	7.6	7.6	7.6	7.6	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	6.4	6.4	6.4	6.4	6.4
72.5°	5.1	5.1	5.1	5.1	5.1
75°	3.8	3.8	3.8	3.8	5.1
77.5°	3.8	3.8	3.8	3.8	3.8
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3
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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