

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: P745737

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745737
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-EU4DR1515309024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2285.6 lumens
Efficiency: N/A
Efficacy: 78.8 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 (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

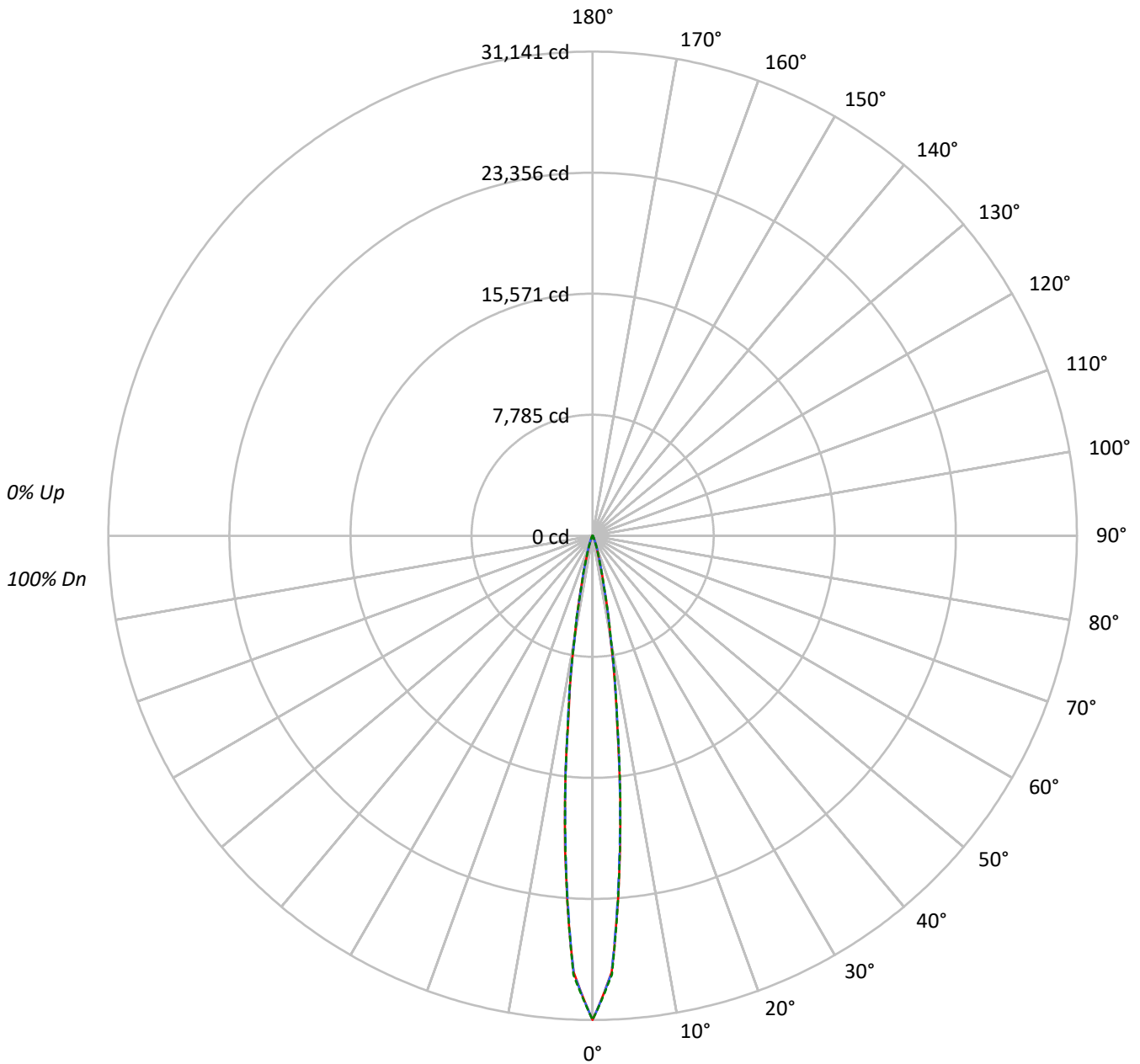


Downlight



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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°	3503961	3503961	3503961
5°	2059093	2032436	2048513
10°	614542	618844	628324
15°	152859	155839	151027
20°	45739	52964	46704
25°	16125	20542	16328
30°	5923	7795	6020
35°	2970	3348	2868
40°	1875	2059	1875
45°	1386	1477	1386
50°	1099	1099	1099
55°	919	919	919
60°	737	737	737
65°	564	564	564
70°	483	483	483
75°	302	302	401
80°	205	205	205
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1477 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1482.4	64.9
10°-20°	609.7	26.7
20°-30°	121.1	5.3
30°-40°	30.2	1.3
40°-50°	15.9	0.7
50°-60°	11.8	0.5
60°-70°	8.3	0.4
70°-80°	4.8	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°	2213.2	96.8
0°-40°	2243.4	98.2
0°-60°	2271.1	99.4
0°-90°	2285.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31141	31141	31141	31141	31141	
5°	20261	20053	19999	20137	20157	1480
15°	1760	1793	1794	1763	1739	603
25°	207	235	264	233	210	109
35°	41	44	46	44	40	28
45°	20	20	21	20	20	15
55°	13	13	13	13	13	12
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°	31140.8	31140.8	31140.8	31140.8	31140.8
2.5°	28090.3	28114.0	28123.2	28150.9	28253.7
5°	20260.9	20052.6	19998.6	20137.0	20156.8
7.5°	12001.8	12044.0	12198.2	12232.5	12108.6
10°	6586.2	6640.3	6632.3	6679.8	6733.9
12.5°	3368.2	3326.1	3312.9	3366.9	3291.8
15°	1759.9	1792.9	1794.2	1762.6	1738.8
17.5°	946.5	984.8	1048.0	996.6	917.5
20°	559.0	593.2	647.3	605.1	570.8
22.5°	345.4	373.1	411.3	378.4	350.7
25°	207.0	234.7	263.7	233.3	209.6
27.5°	122.6	146.3	164.8	145.0	121.3
30°	79.1	92.3	104.1	91.0	80.4
32.5°	55.4	60.6	65.9	60.6	55.4
35°	40.9	43.5	46.1	43.5	39.5
37.5°	31.6	34.3	35.6	33.0	30.3
40°	26.4	27.7	29.0	27.7	26.4
42.5°	22.4	23.7	23.7	23.7	22.4
45°	19.8	19.8	21.1	19.8	19.8
47.5°	17.1	17.1	18.5	17.1	17.1
50°	15.8	15.8	15.8	15.8	15.8
52.5°	14.5	14.5	14.5	14.5	14.5
55°	13.2	13.2	13.2	13.2	13.2
57.5°	11.9	11.9	11.9	11.9	11.9
60°	10.5	10.5	10.5	10.5	10.5
62.5°	9.2	9.2	9.2	9.2	9.2
65°	7.9	7.9	7.9	7.9	7.9
67.5°	7.9	7.9	7.9	7.9	7.9
70°	6.6	6.6	6.6	6.6	6.6
72.5°	5.3	5.3	5.3	5.3	5.3
75°	4.0	4.0	4.0	4.0	5.3
77.5°	4.0	4.0	4.0	4.0	4.0
80°	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6
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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