

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: P742894

Luminaire Tested: LD4D15D010-EU4DR1515309027-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742894
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: LD4D15D010-EU4DR1515309027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1272.2 lumens
Efficiency: N/A
Efficacy: 80.5 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): 15.8
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



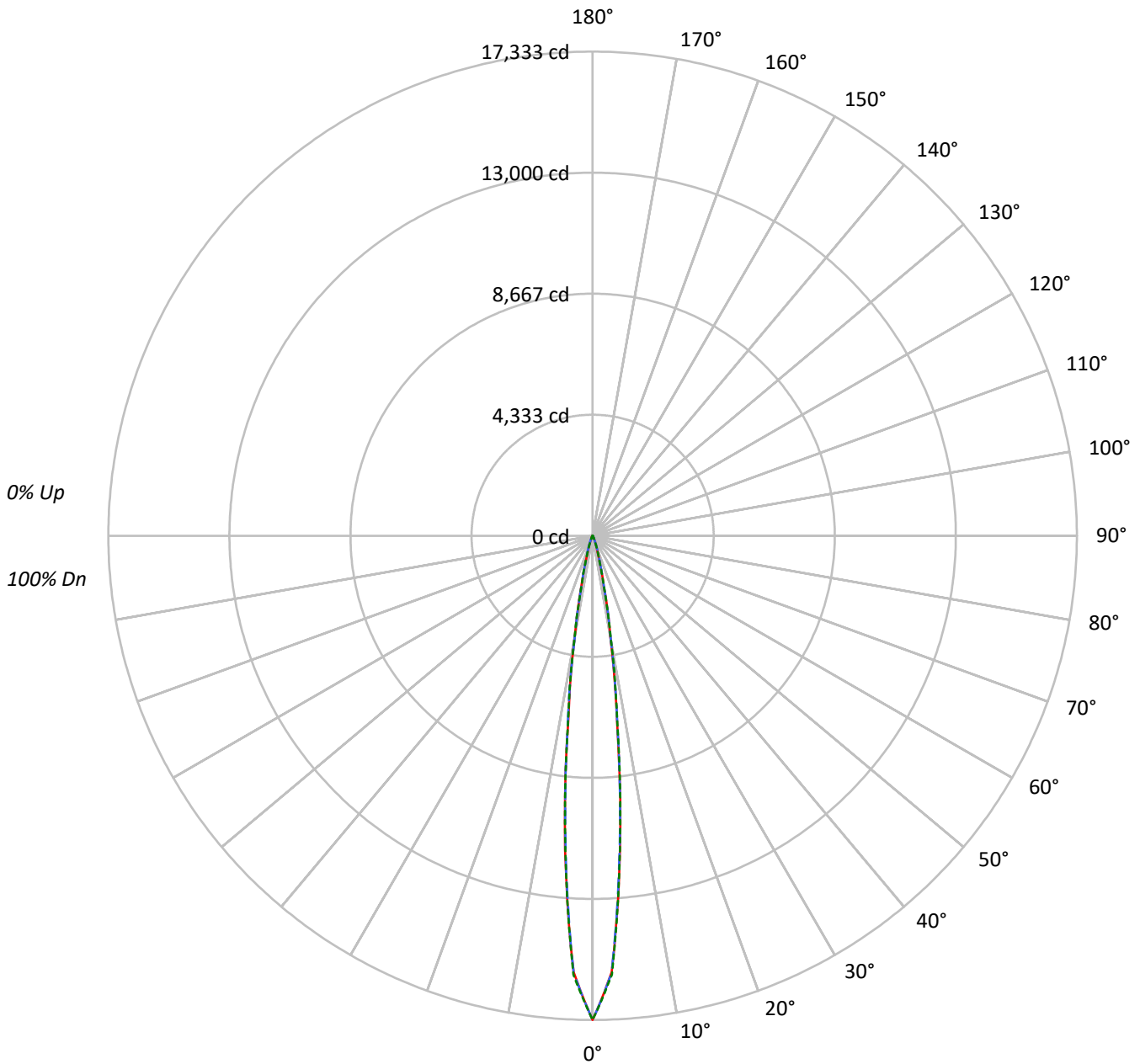
Downlight



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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°	1950320	1950320	1950320
5°	1146100	1131262	1140205
10°	342056	344454	349726
15°	85085	86744	84060
20°	25455	29481	25995
25°	8974	11436	9091
30°	3295	4343	3355
35°	1648	1866	1598
40°	1044	1143	1044
45°	770	819	770
50°	612	612	612
55°	508	508	508
60°	414	414	414
65°	314	314	314
70°	271	271	271
75°	166	166	219
80°	118	118	118
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.1	64.9
10°-20°	339.4	26.7
20°-30°	67.4	5.3
30°-40°	16.8	1.3
40°-50°	8.8	0.7
50°-60°	6.6	0.5
60°-70°	4.6	0.4
70°-80°	2.6	0.2
80°-90°	0.8	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°	1231.9	96.8
0°-40°	1248.7	98.2
0°-60°	1264.1	99.4
0°-90°	1272.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1272.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17333	17333	17333	17333	17333	
5°	11277	11161	11131	11208	11219	824
15°	980	998	999	981	968	336
25°	115	131	147	130	117	60
35°	23	24	26	24	22	15
45°	11	11	12	11	11	9
55°	7	7	7	7	7	7
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
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°	17333.1	17333.1	17333.1	17333.1	17333.1
2.5°	15635.1	15648.4	15653.5	15668.9	15726.1
5°	11277.3	11161.4	11131.3	11208.3	11219.3
7.5°	6680.2	6703.7	6789.6	6808.6	6739.7
10°	3665.9	3696.0	3691.6	3718.0	3748.1
12.5°	1874.8	1851.3	1844.0	1874.0	1832.2
15°	979.6	997.9	998.7	981.0	967.8
17.5°	526.8	548.1	583.3	554.7	510.7
20°	311.1	330.2	360.3	336.8	317.7
22.5°	192.2	207.7	228.9	210.6	195.2
25°	115.2	130.6	146.8	129.9	116.7
27.5°	68.2	81.4	91.7	80.7	67.5
30°	44.0	51.4	58.0	50.6	44.8
32.5°	30.8	33.8	36.7	33.8	30.8
35°	22.7	24.2	25.7	24.2	22.0
37.5°	17.6	19.1	19.8	18.3	16.9
40°	14.7	15.4	16.1	15.4	14.7
42.5°	12.5	13.2	13.2	13.2	12.5
45°	11.0	11.0	11.7	11.0	11.0
47.5°	9.5	9.5	10.3	9.5	9.5
50°	8.8	8.8	8.8	8.8	8.8
52.5°	8.1	8.1	8.1	8.1	8.1
55°	7.3	7.3	7.3	7.3	7.3
57.5°	6.6	6.6	6.6	6.6	6.6
60°	5.9	5.9	5.9	5.9	5.9
62.5°	5.1	5.1	5.1	5.1	5.1
65°	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4
70°	3.7	3.7	3.7	3.7	3.7
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.2	2.2	2.2	2.2	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.7	0.7	0.7	0.7	0.7
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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