

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: P745776

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745776
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-EU4DR1515309035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2765.7 lumens
Efficiency: N/A
Efficacy: 95.4 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



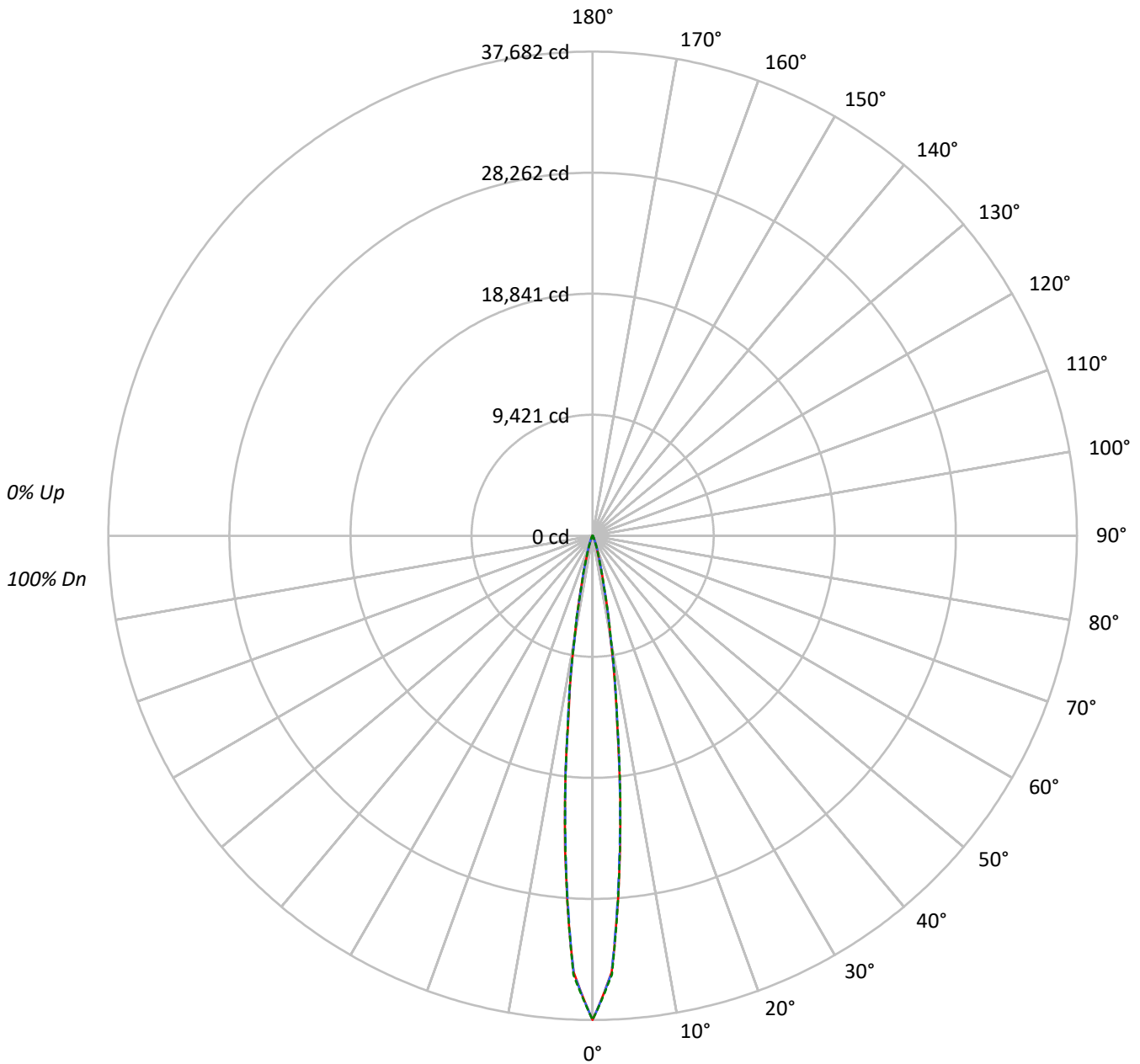
Downlight



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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	87	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°	4239920	4239920	4239920
5°	2491575	2459318	2478770
10°	743624	748831	760289
15°	184970	188575	182755
20°	55345	64084	56515
25°	19506	24850	19756
30°	7166	9435	7286
35°	3595	4052	3478
40°	2265	2493	2265
45°	1673	1785	1673
50°	1328	1328	1328
55°	1114	1114	1114
60°	899	899	899
65°	685	685	685
70°	585	585	585
75°	363	363	484
80°	252	252	252
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1785 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1793.7	64.9
10°-20°	737.8	26.7
20°-30°	146.5	5.3
30°-40°	36.6	1.3
40°-50°	19.2	0.7
50°-60°	14.3	0.5
60°-70°	10.1	0.4
70°-80°	5.7	0.2
80°-90°	1.7	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°	2678.1	96.8
0°-40°	2714.6	98.2
0°-60°	2748.1	99.4
0°-90°	2765.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	37682	37682	37682	37682	37682	
5°	24516	24264	24199	24366	24390	1790
15°	2130	2170	2171	2133	2104	730
25°	250	284	319	282	254	132
35°	50	53	56	53	48	34
45°	24	24	26	24	24	19
55°	16	16	16	16	16	14
65°	10	10	10	10	10	10
75°	5	5	5	5	6	6
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°	37681.5	37681.5	37681.5	37681.5	37681.5
2.5°	33990.3	34019.0	34030.1	34063.6	34188.1
5°	24516.4	24264.4	24199.0	24366.5	24390.4
7.5°	14522.6	14573.6	14760.3	14801.7	14651.8
10°	7969.6	8035.0	8025.4	8082.8	8148.2
12.5°	4075.7	4024.7	4008.7	4074.1	3983.2
15°	2129.6	2169.5	2171.1	2132.8	2104.1
17.5°	1145.3	1191.6	1268.2	1206.0	1110.3
20°	676.4	717.8	783.2	732.2	690.7
22.5°	417.9	451.4	497.7	457.8	424.3
25°	250.4	283.9	319.0	282.3	253.6
27.5°	148.4	177.1	199.4	175.5	146.8
30°	95.7	111.7	126.0	110.1	97.3
32.5°	67.0	73.4	79.8	73.4	67.0
35°	49.5	52.6	55.8	52.6	47.9
37.5°	38.3	41.5	43.1	39.9	36.7
40°	31.9	33.5	35.1	33.5	31.9
42.5°	27.1	28.7	28.7	28.7	27.1
45°	23.9	23.9	25.5	23.9	23.9
47.5°	20.7	20.7	22.3	20.7	20.7
50°	19.1	19.1	19.1	19.1	19.1
52.5°	17.5	17.5	17.5	17.5	17.5
55°	16.0	16.0	16.0	16.0	16.0
57.5°	14.4	14.4	14.4	14.4	14.4
60°	12.8	12.8	12.8	12.8	12.8
62.5°	11.2	11.2	11.2	11.2	11.2
65°	9.6	9.6	9.6	9.6	9.6
67.5°	9.6	9.6	9.6	9.6	9.6
70°	8.0	8.0	8.0	8.0	8.0
72.5°	6.4	6.4	6.4	6.4	6.4
75°	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8
80°	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6
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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