

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: P745766

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745766
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-EU4DR1515309030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2989.5 lumens
Efficiency: N/A
Efficacy: 103.1 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



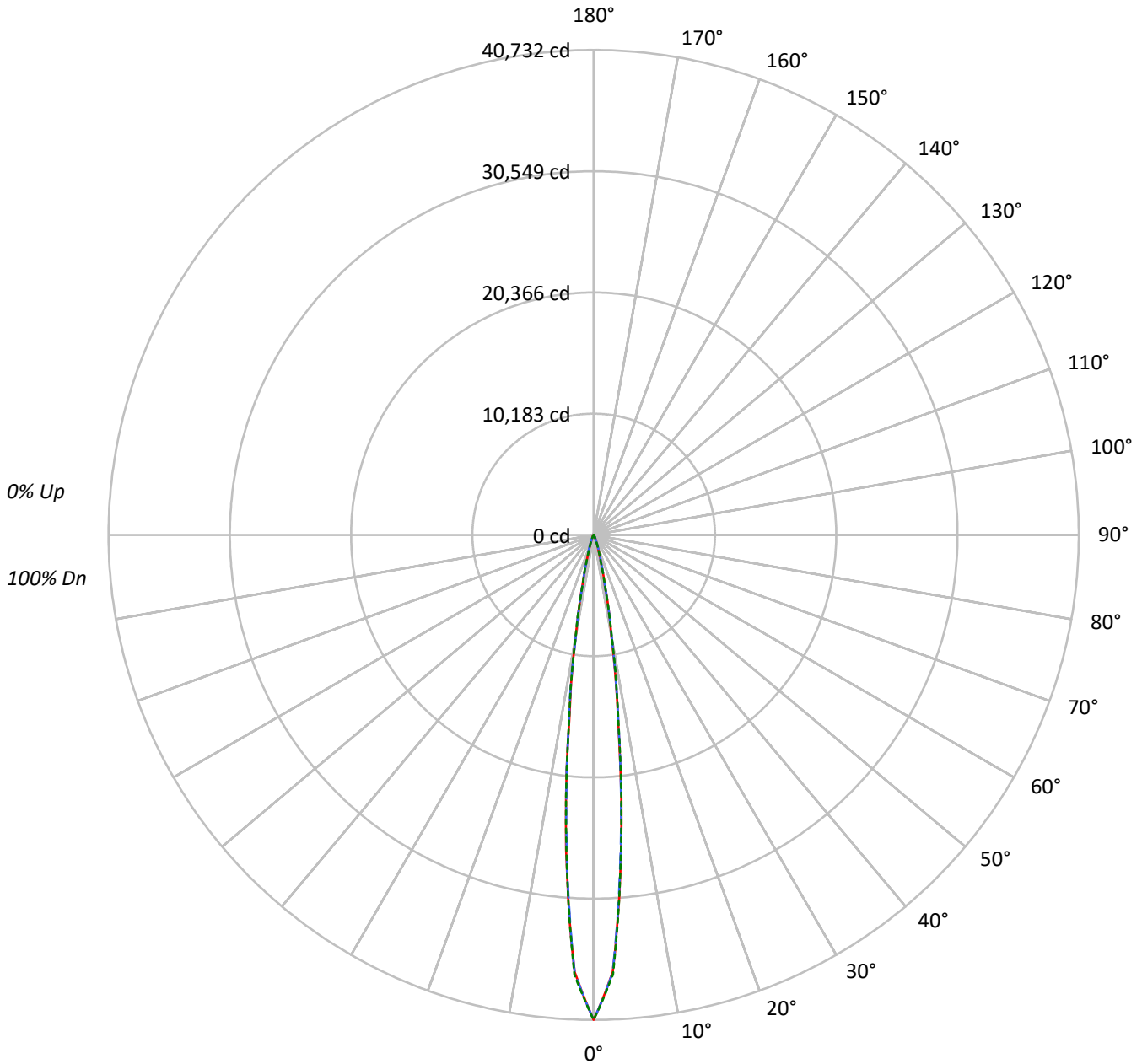
Downlight



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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°	4583151	4583151	4583151
5°	2693278	2658399	2679436
10°	803817	809453	821835
15°	199944	203836	197547
20°	59821	69271	61089
25°	21088	26868	21360
30°	7750	10199	7878
35°	3885	4386	3754
40°	2450	2691	2450
45°	1813	1932	1813
50°	1439	1439	1439
55°	1197	1197	1197
60°	969	969	969
65°	735	735	735
70°	629	629	629
75°	393	393	522
80°	268	268	268
85°	141	141	141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1938.9	64.9
10°-20°	797.5	26.7
20°-30°	158.4	5.3
30°-40°	39.5	1.3
40°-50°	20.8	0.7
50°-60°	15.4	0.5
60°-70°	10.9	0.4
70°-80°	6.2	0.2
80°-90°	1.8	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°	2894.9	96.8
0°-40°	2934.4	98.2
0°-60°	2970.6	99.4
0°-90°	2989.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	40732	40732	40732	40732	40732	
5°	26501	26229	26158	26339	26365	1935
15°	2302	2345	2347	2305	2274	789
25°	271	307	345	305	274	142
35°	54	57	60	57	52	36
45°	26	26	28	26	26	20
55°	17	17	17	17	17	15
65°	10	10	10	10	10	11
75°	5	5	5	5	7	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°	40731.9	40731.9	40731.9	40731.9	40731.9
2.5°	36741.8	36772.9	36784.9	36821.1	36955.6
5°	26501.1	26228.6	26157.9	26339.0	26364.9
7.5°	15698.2	15753.4	15955.1	16000.0	15837.9
10°	8614.7	8685.4	8675.1	8737.1	8807.8
12.5°	4405.6	4350.5	4333.2	4403.9	4305.6
15°	2302.0	2345.1	2346.8	2305.4	2274.4
17.5°	1238.1	1288.1	1370.8	1303.6	1200.1
20°	731.1	775.9	846.6	791.5	746.6
22.5°	451.8	488.0	538.0	494.9	458.7
25°	270.7	306.9	344.9	305.2	274.2
27.5°	160.4	191.4	215.5	189.7	158.6
30°	103.5	120.7	136.2	119.0	105.2
32.5°	72.4	79.3	86.2	79.3	72.4
35°	53.5	56.9	60.4	56.9	51.7
37.5°	41.4	44.8	46.6	43.1	39.7
40°	34.5	36.2	37.9	36.2	34.5
42.5°	29.3	31.0	31.0	31.0	29.3
45°	25.9	25.9	27.6	25.9	25.9
47.5°	22.4	22.4	24.1	22.4	22.4
50°	20.7	20.7	20.7	20.7	20.7
52.5°	19.0	19.0	19.0	19.0	19.0
55°	17.2	17.2	17.2	17.2	17.2
57.5°	15.5	15.5	15.5	15.5	15.5
60°	13.8	13.8	13.8	13.8	13.8
62.5°	12.1	12.1	12.1	12.1	12.1
65°	10.3	10.3	10.3	10.3	10.3
67.5°	10.3	10.3	10.3	10.3	10.3
70°	8.6	8.6	8.6	8.6	8.6
72.5°	6.9	6.9	6.9	6.9	6.9
75°	5.2	5.2	5.2	5.2	6.9
77.5°	5.2	5.2	5.2	5.2	5.2
80°	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4
85°	1.7	1.7	1.7	1.7	1.7
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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