

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: P745764

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745764
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-EU4DR1515309030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2672.2 lumens
Efficiency: N/A
Efficacy: 92.1 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

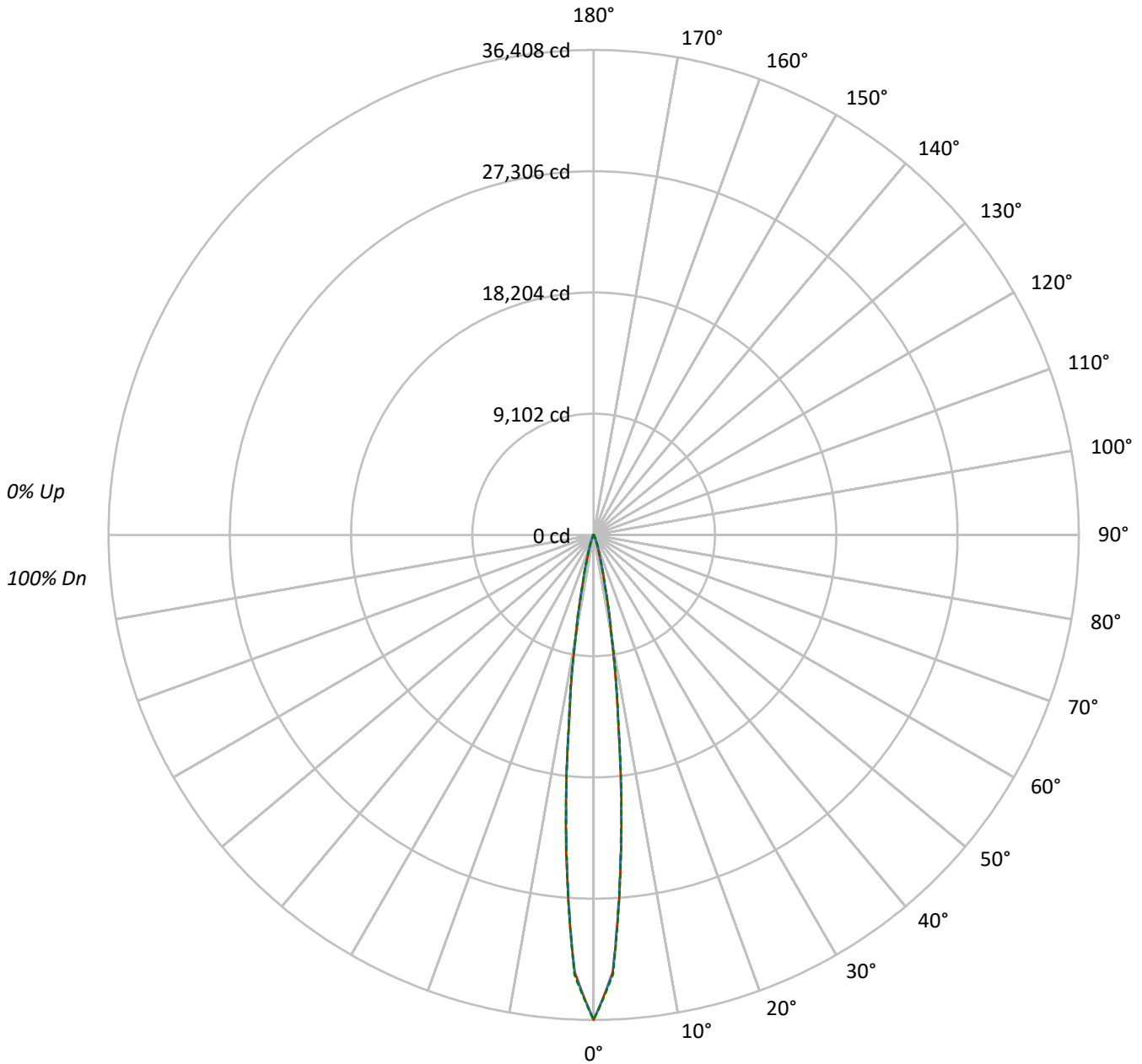


Downlight



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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°	4096683	4096683	4096683
5°	2407406	2376236	2395027
10°	718496	723535	734601
15°	178717	182200	176580
20°	53471	61923	54609
25°	18852	24017	19093
30°	6927	9121	7039
35°	3471	3914	3355
40°	2187	2407	2187
45°	1617	1729	1617
50°	1286	1286	1286
55°	1072	1072	1072
60°	864	864	864
65°	657	657	657
70°	563	563	563
75°	348	348	469
80°	244	244	244
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1729 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1733.1	64.9
10°-20°	712.9	26.7
20°-30°	141.6	5.3
30°-40°	35.3	1.3
40°-50°	18.6	0.7
50°-60°	13.8	0.5
60°-70°	9.7	0.4
70°-80°	5.5	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°	2587.6	96.8
0°-40°	2622.9	98.2
0°-60°	2655.3	99.4
0°-90°	2672.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2672.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36408	36408	36408	36408	36408	
5°	23688	23445	23382	23543	23566	1730
15°	2058	2096	2098	2061	2033	705
25°	242	274	308	273	245	127
35°	48	51	54	51	46	32
45°	23	23	25	23	23	18
55°	15	15	15	15	15	14
65°	9	9	9	9	9	10
75°	5	5	5	5	6	5
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°	36408.5	36408.5	36408.5	36408.5	36408.5
2.5°	32841.9	32869.7	32880.5	32912.8	33033.1
5°	23688.2	23444.7	23381.5	23543.3	23566.4
7.5°	14032.0	14081.3	14261.6	14301.7	14156.8
10°	7700.3	7763.5	7754.3	7809.7	7872.9
12.5°	3938.0	3888.7	3873.3	3936.5	3848.6
15°	2057.6	2096.2	2097.7	2060.7	2033.0
17.5°	1106.7	1151.3	1225.3	1165.2	1072.7
20°	653.5	693.6	756.8	707.5	667.4
22.5°	403.8	436.2	480.9	442.4	410.0
25°	242.0	274.4	308.3	272.8	245.1
27.5°	143.3	171.1	192.7	169.5	141.8
30°	92.5	107.9	121.8	106.3	94.0
32.5°	64.7	70.9	77.1	70.9	64.7
35°	47.8	50.9	53.9	50.9	46.2
37.5°	37.0	40.1	41.6	38.5	35.4
40°	30.8	32.4	33.9	32.4	30.8
42.5°	26.2	27.7	27.7	27.7	26.2
45°	23.1	23.1	24.7	23.1	23.1
47.5°	20.0	20.0	21.6	20.0	20.0
50°	18.5	18.5	18.5	18.5	18.5
52.5°	17.0	17.0	17.0	17.0	17.0
55°	15.4	15.4	15.4	15.4	15.4
57.5°	13.9	13.9	13.9	13.9	13.9
60°	12.3	12.3	12.3	12.3	12.3
62.5°	10.8	10.8	10.8	10.8	10.8
65°	9.2	9.2	9.2	9.2	9.2
67.5°	9.2	9.2	9.2	9.2	9.2
70°	7.7	7.7	7.7	7.7	7.7
72.5°	6.2	6.2	6.2	6.2	6.2
75°	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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