

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: P745801

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745801
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-EU4DR1515309050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3044.7 lumens
Efficiency: N/A
Efficacy: 105.0 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

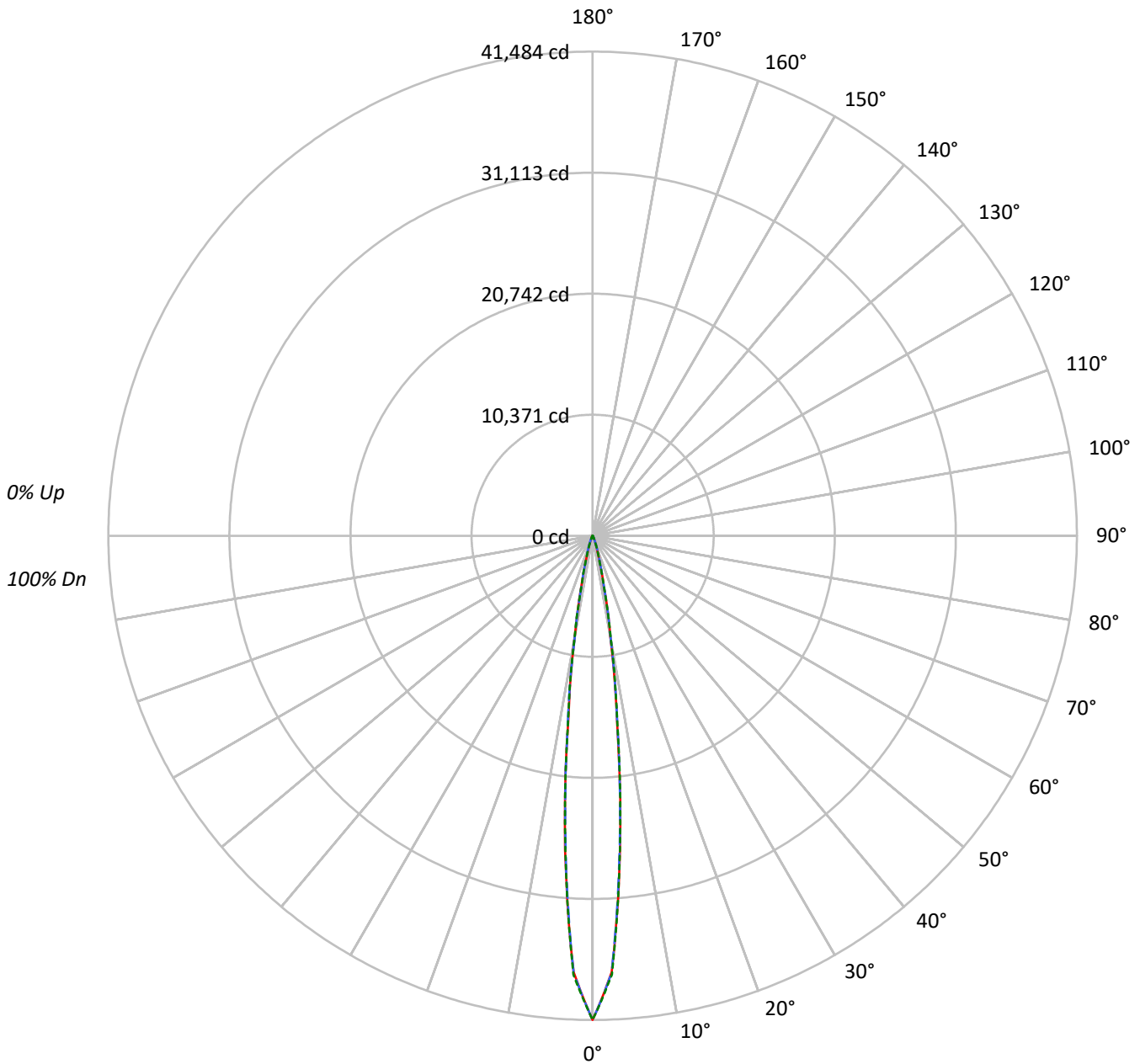


Downlight



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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°	4667800	4667800	4667800
5°	2743015	2707496	2728919
10°	818662	824401	837016
15°	203636	207597	201195
20°	60925	70556	62218
25°	21477	27359	21750
30°	7892	10386	8020
35°	3950	4466	3827
40°	2493	2741	2493
45°	1841	1967	1841
50°	1467	1467	1467
55°	1225	1225	1225
60°	983	983	983
65°	749	749	749
70°	644	644	644
75°	401	401	529
80°	276	276	276
85°	149	149	149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1974.7	64.9
10°-20°	812.3	26.7
20°-30°	161.3	5.3
30°-40°	40.3	1.3
40°-50°	21.2	0.7
50°-60°	15.7	0.5
60°-70°	11.1	0.4
70°-80°	6.3	0.2
80°-90°	1.9	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°	2948.3	96.8
0°-40°	2988.6	98.2
0°-60°	3025.4	99.4
0°-90°	3044.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	41484	41484	41484	41484	41484	
5°	26990	26713	26641	26825	26852	1971
15°	2344	2388	2390	2348	2316	804
25°	276	313	351	311	279	145
35°	54	58	62	58	53	37
45°	26	26	28	26	26	21
55°	18	18	18	18	18	16
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°	41484.2	41484.2	41484.2	41484.2	41484.2
2.5°	37420.4	37452.0	37464.3	37501.2	37638.1
5°	26990.5	26713.0	26641.0	26825.4	26851.8
7.5°	15988.1	16044.3	16249.8	16295.5	16130.4
10°	8773.8	8845.8	8835.3	8898.5	8970.5
12.5°	4487.0	4430.8	4413.2	4485.2	4385.1
15°	2344.5	2388.4	2390.1	2348.0	2316.4
17.5°	1260.9	1311.9	1396.2	1327.7	1222.3
20°	744.6	790.3	862.3	806.1	760.4
22.5°	460.1	497.0	547.9	504.0	467.1
25°	275.7	312.6	351.2	310.8	279.2
27.5°	163.3	194.9	219.5	193.2	161.6
30°	105.4	122.9	138.7	121.2	107.1
32.5°	73.8	80.8	87.8	80.8	73.8
35°	54.4	58.0	61.5	58.0	52.7
37.5°	42.1	45.7	47.4	43.9	40.4
40°	35.1	36.9	38.6	36.9	35.1
42.5°	29.9	31.6	31.6	31.6	29.9
45°	26.3	26.3	28.1	26.3	26.3
47.5°	22.8	22.8	24.6	22.8	22.8
50°	21.1	21.1	21.1	21.1	21.1
52.5°	19.3	19.3	19.3	19.3	19.3
55°	17.6	17.6	17.6	17.6	17.6
57.5°	15.8	15.8	15.8	15.8	15.8
60°	14.0	14.0	14.0	14.0	14.0
62.5°	12.3	12.3	12.3	12.3	12.3
65°	10.5	10.5	10.5	10.5	10.5
67.5°	10.5	10.5	10.5	10.5	10.5
70°	8.8	8.8	8.8	8.8	8.8
72.5°	7.0	7.0	7.0	7.0	7.0
75°	5.3	5.3	5.3	5.3	7.0
77.5°	5.3	5.3	5.3	5.3	5.3
80°	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5
85°	1.8	1.8	1.8	1.8	1.8
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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(END OF REPORT)