

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: P742930

Luminaire Tested: LD4D15D010-EU4DR1515309040-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742930
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-EU4DR1515309040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.9 lumens
Efficiency: N/A
Efficacy: 97.8 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

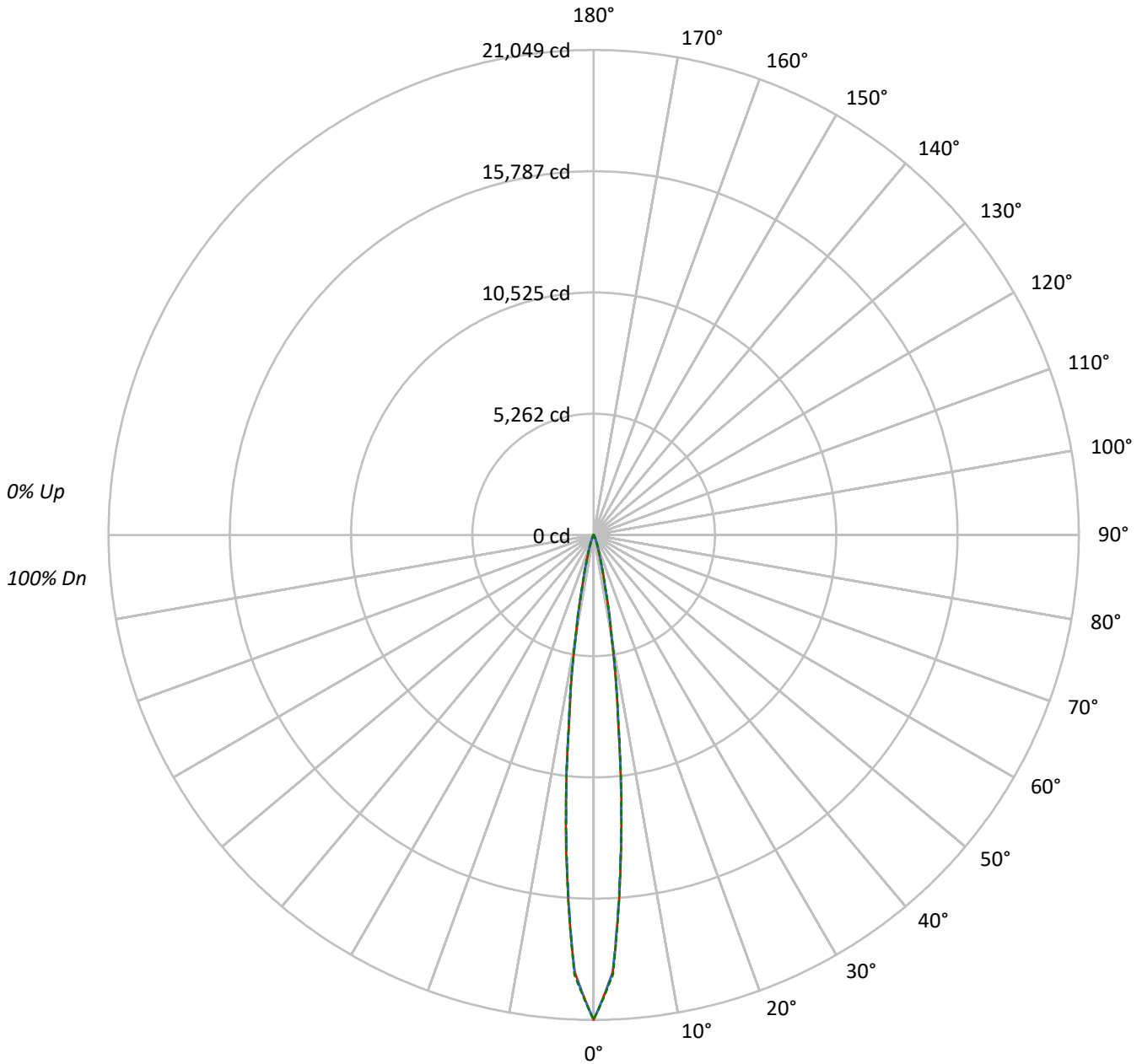


Downlight



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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°	2368410	2368410	2368410
5°	1391788	1373769	1384633
10°	415387	418298	424699
15°	103325	105331	102083
20°	30913	35797	31567
25°	10898	13882	11039
30°	4006	5272	4074
35°	2004	2266	1939
40°	1264	1392	1264
45°	938	1001	938
50°	744	744	744
55°	619	619	619
60°	498	498	498
65°	378	378	378
70°	329	329	329
75°	204	204	272
80°	142	142	142
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1001 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1002.0	64.9
10°-20°	412.1	26.7
20°-30°	81.9	5.3
30°-40°	20.4	1.3
40°-50°	10.7	0.7
50°-60°	8.0	0.5
60°-70°	5.6	0.4
70°-80°	3.2	0.2
80°-90°	1.0	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°	1496.0	96.8
0°-40°	1516.4	98.2
0°-60°	1535.1	99.4
0°-90°	1544.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21049	21049	21049	21049	21049	
5°	13695	13554	13518	13611	13624	1000
15°	1190	1212	1213	1191	1175	408
25°	140	159	178	158	142	73
35°	28	29	31	29	27	19
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	6
75°	3	3	3	3	4	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°	21048.8	21048.8	21048.8	21048.8	21048.8
2.5°	18986.8	19002.9	19009.1	19027.8	19097.3
5°	13694.8	13554.0	13517.5	13611.0	13624.4
7.5°	8112.3	8140.8	8245.0	8268.2	8184.4
10°	4451.8	4488.3	4483.0	4515.0	4551.6
12.5°	2276.7	2248.2	2239.2	2275.8	2225.0
15°	1189.6	1211.8	1212.7	1191.4	1175.3
17.5°	639.8	665.6	708.4	673.6	620.2
20°	377.8	401.0	437.5	409.0	385.8
22.5°	233.5	252.2	278.0	255.7	237.0
25°	139.9	158.6	178.2	157.7	141.7
27.5°	82.9	98.9	111.4	98.0	82.0
30°	53.5	62.4	70.4	61.5	54.4
32.5°	37.4	41.0	44.6	41.0	37.4
35°	27.6	29.4	31.2	29.4	26.7
37.5°	21.4	23.2	24.1	22.3	20.5
40°	17.8	18.7	19.6	18.7	17.8
42.5°	15.1	16.0	16.0	16.0	15.1
45°	13.4	13.4	14.3	13.4	13.4
47.5°	11.6	11.6	12.5	11.6	11.6
50°	10.7	10.7	10.7	10.7	10.7
52.5°	9.8	9.8	9.8	9.8	9.8
55°	8.9	8.9	8.9	8.9	8.9
57.5°	8.0	8.0	8.0	8.0	8.0
60°	7.1	7.1	7.1	7.1	7.1
62.5°	6.2	6.2	6.2	6.2	6.2
65°	5.3	5.3	5.3	5.3	5.3
67.5°	5.3	5.3	5.3	5.3	5.3
70°	4.5	4.5	4.5	4.5	4.5
72.5°	3.6	3.6	3.6	3.6	3.6
75°	2.7	2.7	2.7	2.7	3.6
77.5°	2.7	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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