

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: P743929

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743929
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: LD4D20D010-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: 2096.3 lumens
Efficiency: N/A
Efficacy: 90.8 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): 23.1
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

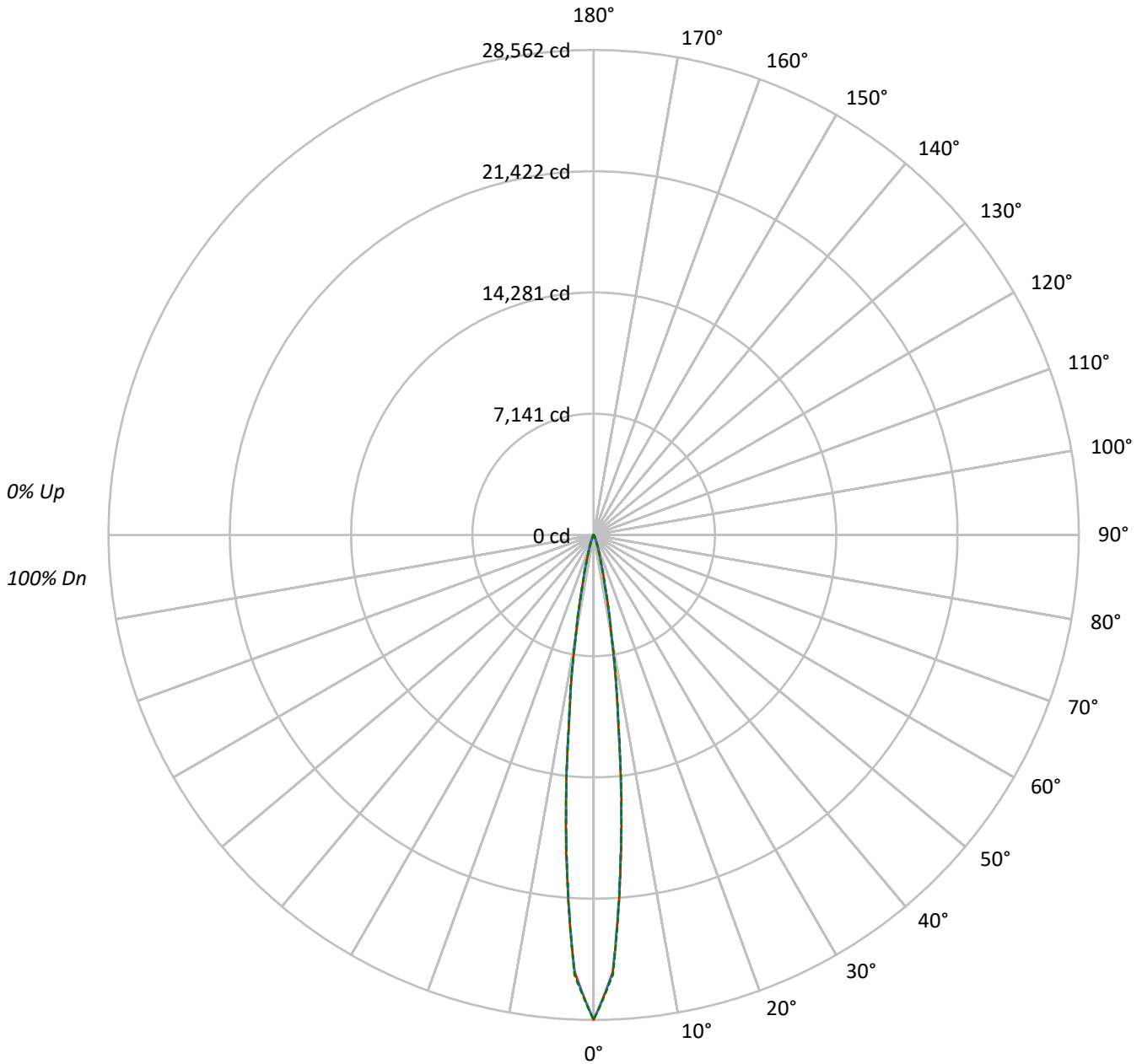


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3213840	3213840	3213840
5°	1888600	1864148	1878895
10°	563662	567609	576296
15°	140204	142932	138528
20°	41951	48578	42842
25°	14786	18836	14980
30°	5429	7151	5526
35°	2723	3072	2636
40°	1719	1889	1719
45°	1267	1351	1267
50°	1008	1008	1008
55°	842	842	842
60°	681	681	681
65°	521	521	521
70°	439	439	439
75°	272	272	363
80°	189	189	189
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1351 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1359.6	64.9
10°-20°	559.3	26.7
20°-30°	111.1	5.3
30°-40°	27.7	1.3
40°-50°	14.6	0.7
50°-60°	10.8	0.5
60°-70°	7.7	0.4
70°-80°	4.3	0.2
80°-90°	1.3	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°	2030.0	96.8
0°-40°	2057.7	98.2
0°-60°	2083.1	99.4
0°-90°	2096.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28562	28562	28562	28562	28562	
5°	18583	18392	18343	18470	18488	1357
15°	1614	1644	1646	1617	1595	553
25°	190	215	242	214	192	100
35°	38	40	42	40	36	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	5	4
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°	28562.4	28562.4	28562.4	28562.4	28562.4
2.5°	25764.4	25786.2	25794.7	25820.0	25914.4
5°	18583.3	18392.3	18342.7	18469.7	18487.8
7.5°	11008.0	11046.7	11188.2	11219.6	11106.0
10°	6040.9	6090.5	6083.2	6126.7	6176.3
12.5°	3089.4	3050.7	3038.6	3088.2	3019.2
15°	1614.2	1644.4	1645.6	1616.6	1594.9
17.5°	868.2	903.2	961.3	914.1	841.6
20°	512.7	544.1	593.7	555.0	523.6
22.5°	316.8	342.2	377.3	347.0	321.6
25°	189.8	215.2	241.8	214.0	192.3
27.5°	112.5	134.2	151.1	133.0	111.2
30°	72.5	84.6	95.5	83.4	73.8
32.5°	50.8	55.6	60.5	55.6	50.8
35°	37.5	39.9	42.3	39.9	36.3
37.5°	29.0	31.4	32.6	30.2	27.8
40°	24.2	25.4	26.6	25.4	24.2
42.5°	20.6	21.8	21.8	21.8	20.6
45°	18.1	18.1	19.3	18.1	18.1
47.5°	15.7	15.7	16.9	15.7	15.7
50°	14.5	14.5	14.5	14.5	14.5
52.5°	13.3	13.3	13.3	13.3	13.3
55°	12.1	12.1	12.1	12.1	12.1
57.5°	10.9	10.9	10.9	10.9	10.9
60°	9.7	9.7	9.7	9.7	9.7
62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.3	7.3	7.3	7.3	7.3
67.5°	7.3	7.3	7.3	7.3	7.3
70°	6.0	6.0	6.0	6.0	6.0
72.5°	4.8	4.8	4.8	4.8	4.8
75°	3.6	3.6	3.6	3.6	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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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(END OF REPORT)