

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: P743878

Luminaire Tested: LD4D20D010-EU4DR1515309027-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743878
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-EU4DR1515309027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1746.9 lumens
Efficiency: N/A
Efficacy: 75.6 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



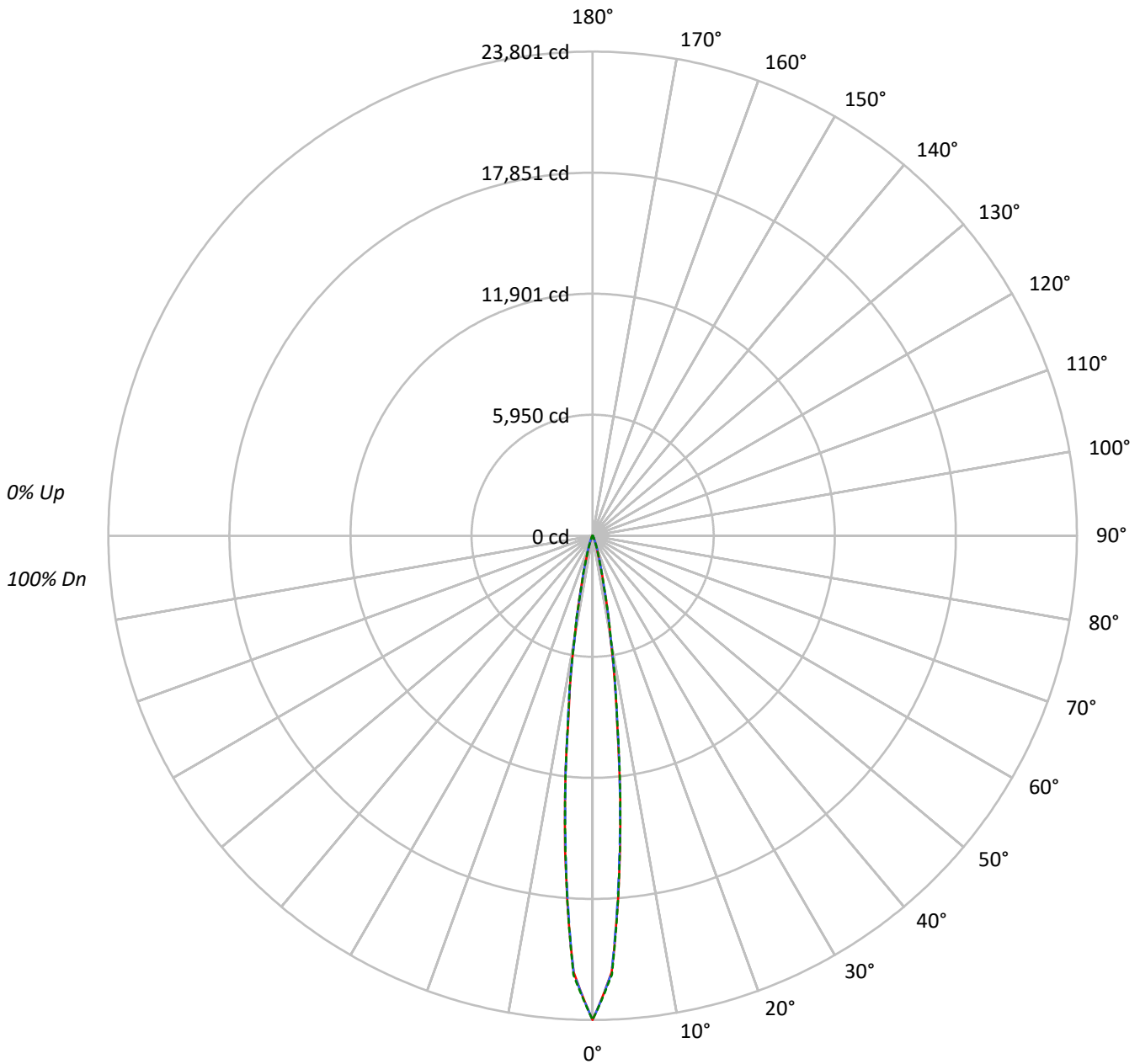
Downlight



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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	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°	2678087	2678087	2678087
5°	1573774	1553398	1565685
10°	469701	472986	480226
15°	116831	119107	115433
20°	34955	40478	35699
25°	12324	15697	12480
30°	4530	5961	4605
35°	2266	2563	2193
40°	1434	1577	1434
45°	1057	1127	1057
50°	841	841	841
55°	703	703	703
60°	569	569	569
65°	428	428	428
70°	366	366	366
75°	227	227	302
80°	158	158	158
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1127 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1133.0	64.9
10°-20°	466.0	26.7
20°-30°	92.6	5.3
30°-40°	23.1	1.3
40°-50°	12.1	0.7
50°-60°	9.0	0.5
60°-70°	6.3	0.4
70°-80°	3.6	0.2
80°-90°	1.1	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°	1691.6	96.8
0°-40°	1714.7	98.2
0°-60°	1735.8	99.4
0°-90°	1746.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23801	23801	23801	23801	23801	
5°	15486	15326	15285	15391	15406	1131
15°	1345	1370	1371	1347	1329	461
25°	158	179	202	178	160	83
35°	31	33	35	33	30	21
45°	15	15	16	15	15	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	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°	23801.0	23801.0	23801.0	23801.0	23801.0
2.5°	21469.5	21487.6	21494.7	21515.8	21594.4
5°	15485.5	15326.3	15285.0	15390.8	15405.9
7.5°	9173.0	9205.2	9323.1	9349.3	9254.6
10°	5033.9	5075.2	5069.1	5105.4	5146.7
12.5°	2574.4	2542.1	2532.0	2573.4	2515.9
15°	1345.1	1370.3	1371.3	1347.1	1329.0
17.5°	723.4	752.7	801.0	761.7	701.3
20°	427.2	453.4	494.7	462.5	436.3
22.5°	264.0	285.1	314.4	289.2	268.0
25°	158.2	179.3	201.5	178.3	160.2
27.5°	93.7	111.8	125.9	110.8	92.7
30°	60.5	70.5	79.6	69.5	61.5
32.5°	42.3	46.3	50.4	46.3	42.3
35°	31.2	33.3	35.3	33.3	30.2
37.5°	24.2	26.2	27.2	25.2	23.2
40°	20.2	21.2	22.2	21.2	20.2
42.5°	17.1	18.1	18.1	18.1	17.1
45°	15.1	15.1	16.1	15.1	15.1
47.5°	13.1	13.1	14.1	13.1	13.1
50°	12.1	12.1	12.1	12.1	12.1
52.5°	11.1	11.1	11.1	11.1	11.1
55°	10.1	10.1	10.1	10.1	10.1
57.5°	9.1	9.1	9.1	9.1	9.1
60°	8.1	8.1	8.1	8.1	8.1
62.5°	7.1	7.1	7.1	7.1	7.1
65°	6.0	6.0	6.0	6.0	6.0
67.5°	6.0	6.0	6.0	6.0	6.0
70°	5.0	5.0	5.0	5.0	5.0
72.5°	4.0	4.0	4.0	4.0	4.0
75°	3.0	3.0	3.0	3.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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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