

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: P744857

Luminaire Tested: LD4D25D010-EU4DR1515309040-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744857
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: LD4D25D010-EU4DR1515309040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2610.7 lumens
Efficiency: N/A
Efficacy: 104.0 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): 25.1
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

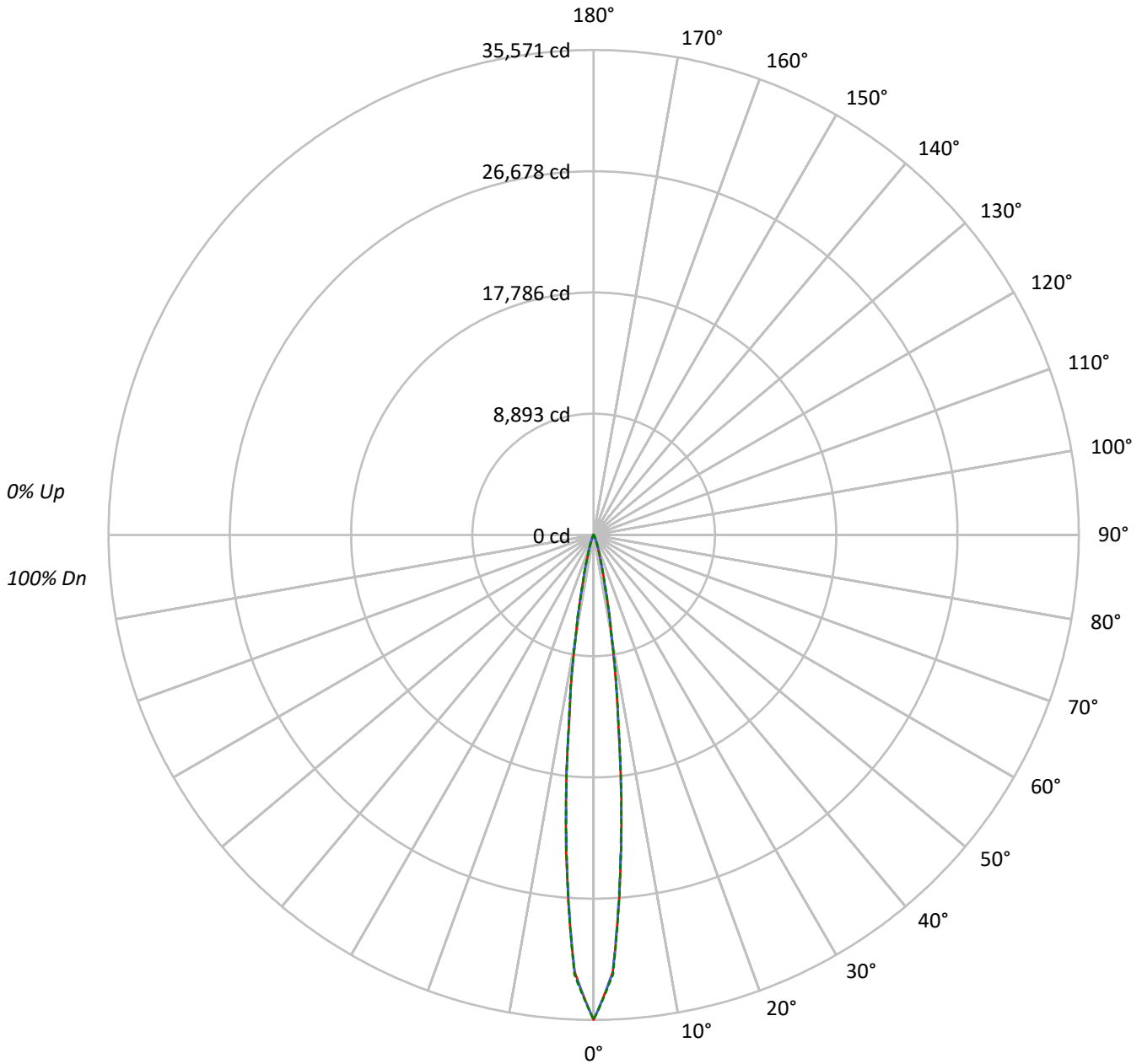


Downlight



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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°	4002402	4002402	4002402
5°	2351998	2321550	2339914
10°	701962	706880	717703
15°	174608	178004	172515
20°	52244	60500	53348
25°	18416	23464	18649
30°	6762	8911	6882
35°	3391	3827	3282
40°	2138	2351	2138
45°	1582	1687	1582
50°	1259	1259	1259
55°	1051	1051	1051
60°	843	843	843
65°	642	642	642
70°	549	549	549
75°	340	340	454
80°	236	236	236
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1687 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1693.2	64.9
10°-20°	696.5	26.7
20°-30°	138.3	5.3
30°-40°	34.5	1.3
40°-50°	18.2	0.7
50°-60°	13.5	0.5
60°-70°	9.5	0.4
70°-80°	5.4	0.2
80°-90°	1.6	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°	2528.0	96.8
0°-40°	2562.6	98.2
0°-60°	2594.2	99.4
0°-90°	2610.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35571	35571	35571	35571	35571	
5°	23143	22905	22843	23002	23024	1690
15°	2010	2048	2049	2013	1986	689
25°	236	268	301	266	239	124
35°	47	50	53	50	45	32
45°	23	23	24	23	23	18
55°	15	15	15	15	15	13
65°	9	9	9	9	9	9
75°	4	4	4	4	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°	35570.6	35570.6	35570.6	35570.6	35570.6
2.5°	32086.1	32113.3	32123.8	32155.4	32272.9
5°	23143.0	22905.1	22843.4	23001.5	23024.1
7.5°	13709.0	13757.2	13933.4	13972.6	13831.0
10°	7523.1	7584.8	7575.8	7630.0	7691.8
12.5°	3847.4	3799.2	3784.1	3845.9	3760.0
15°	2010.3	2047.9	2049.4	2013.3	1986.2
17.5°	1081.2	1124.9	1197.1	1138.4	1048.1
20°	638.5	677.6	739.4	691.2	652.0
22.5°	394.5	426.1	469.8	432.2	400.5
25°	236.4	268.0	301.2	266.5	239.4
27.5°	140.0	167.1	188.2	165.6	138.5
30°	90.3	105.4	119.0	103.9	91.9
32.5°	63.2	69.3	75.3	69.3	63.2
35°	46.7	49.7	52.7	49.7	45.2
37.5°	36.1	39.2	40.7	37.6	34.6
40°	30.1	31.6	33.1	31.6	30.1
42.5°	25.6	27.1	27.1	27.1	25.6
45°	22.6	22.6	24.1	22.6	22.6
47.5°	19.6	19.6	21.1	19.6	19.6
50°	18.1	18.1	18.1	18.1	18.1
52.5°	16.6	16.6	16.6	16.6	16.6
55°	15.1	15.1	15.1	15.1	15.1
57.5°	13.6	13.6	13.6	13.6	13.6
60°	12.0	12.0	12.0	12.0	12.0
62.5°	10.5	10.5	10.5	10.5	10.5
65°	9.0	9.0	9.0	9.0	9.0
67.5°	9.0	9.0	9.0	9.0	9.0
70°	7.5	7.5	7.5	7.5	7.5
72.5°	6.0	6.0	6.0	6.0	6.0
75°	4.5	4.5	4.5	4.5	6.0
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0
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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