

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: P755348

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR3070959027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8151.8 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

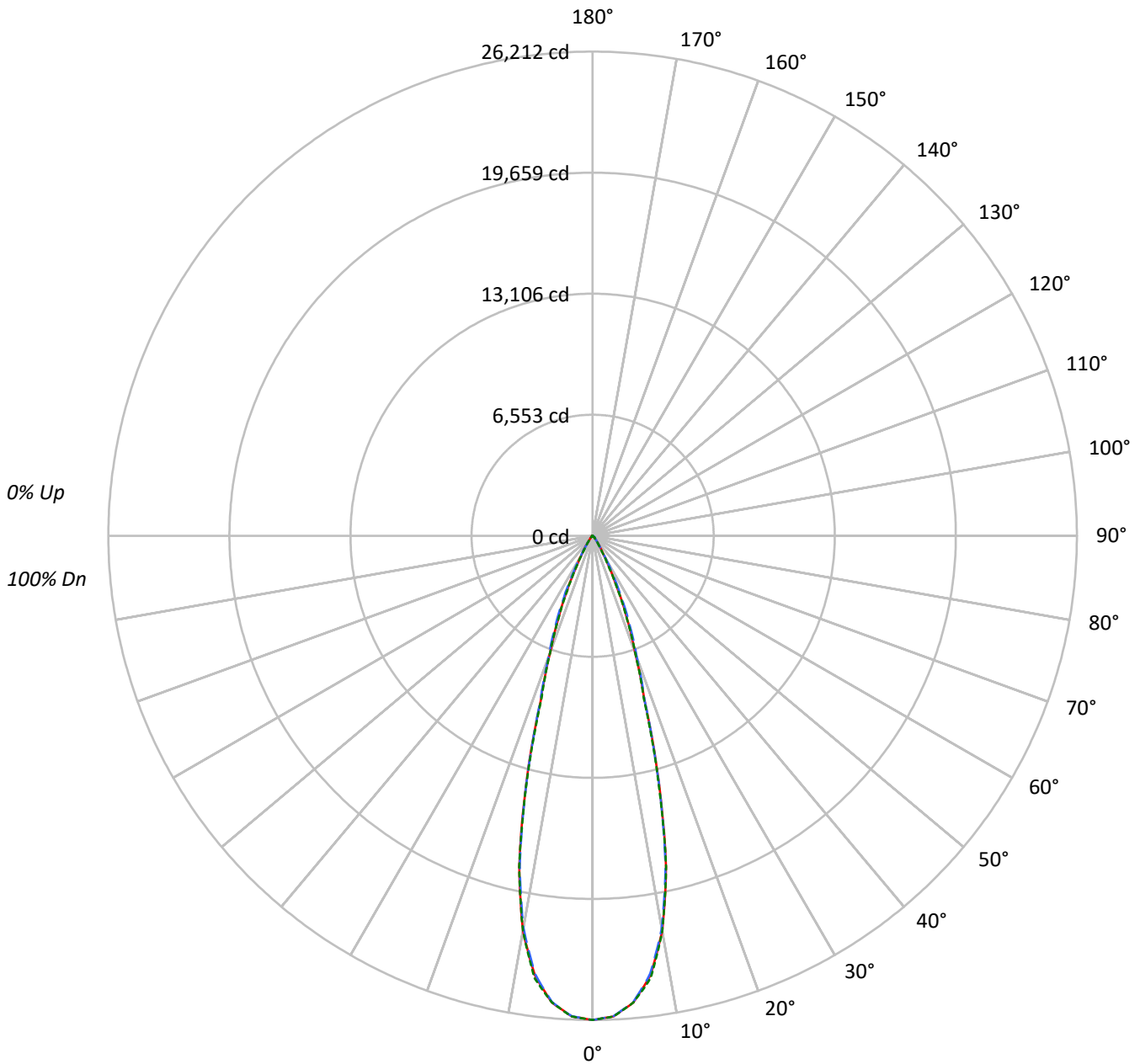
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2006363	2006363	2006363
5°	1948763	1946488	1948863
10°	1687929	1676021	1687525
15°	1101287	1095376	1089868
20°	547619	568162	546886
25°	275851	311069	270201
30°	110446	120345	96224
35°	51225	49067	41124
40°	22122	24560	20833
45°	15599	19366	15739
50°	5359	14099	5668
55°	3096	5845	3270
60°	2174	2557	2174
65°	1395	1395	1395
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19366 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2305.0	28.3
10°-20°	3712.2	45.5
20°-30°	1604.1	19.7
30°-40°	365.6	4.5
40°-50°	125.5	1.5
50°-60°	30.7	0.4
60°-70°	7.9	0.1
70°-80°	0.8	0.0
80°-90°	0.0	0.0
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°	7621.2	93.5
0°-40°	7986.8	98.0
0°-60°	8143.0	99.9
0°-90°	8151.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8151.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26212	26212	26212	26212	26212	
5°	25363	25338	25333	25386	25364	2307
15°	13898	13730	13823	13778	13753	3721
25°	3266	3390	3683	3304	3199	1563
35°	548	560	525	521	440	372
45°	144	179	179	179	145	102
55°	23	24	44	26	24	23
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26212.1	26212.1	26212.1	26212.1	26212.1
2.5°	26038.4	26020.4	26030.7	26043.5	26048.7
5°	25362.7	25338.3	25333.1	25385.9	25364.0
7.5°	23999.9	23965.1	23912.4	24032.1	24144.0
10°	21716.9	21678.3	21563.7	21620.4	21711.7
12.5°	18346.4	18221.6	18219.0	18399.2	18374.7
15°	13897.5	13730.2	13822.9	13777.8	13753.4
17.5°	9345.7	9281.3	9404.9	9367.5	9206.7
20°	6722.9	6739.6	6975.1	6856.7	6713.9
22.5°	4905.8	4966.2	5245.5	4940.5	4828.5
25°	3266.2	3389.8	3683.2	3303.5	3199.3
27.5°	2008.9	2065.5	2362.8	1983.2	1926.5
30°	1249.6	1221.3	1361.6	1168.5	1088.7
32.5°	819.8	783.7	828.8	743.8	679.5
35°	548.2	559.8	525.1	521.2	440.1
37.5°	342.3	393.8	347.5	370.6	283.1
40°	221.4	285.7	245.8	271.5	208.5
42.5°	181.5	220.1	202.0	214.9	185.3
45°	144.1	178.9	178.9	178.9	145.4
47.5°	79.8	119.7	153.1	122.3	84.9
50°	45.0	60.5	118.4	63.1	47.6
52.5°	30.9	34.7	81.1	36.0	32.2
55°	23.2	24.5	43.8	25.7	24.5
57.5°	18.0	19.3	23.2	19.3	18.0
60°	14.2	14.2	16.7	15.4	14.2
62.5°	10.3	10.3	11.6	10.3	10.3
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.9	5.1	5.1	5.1	5.1
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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