

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: P753840

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753840
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: LD4D80BD010-EU4DR3070959050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7922.1 lumens
Efficiency: N/A
Efficacy: 100.4 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): 78.9
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

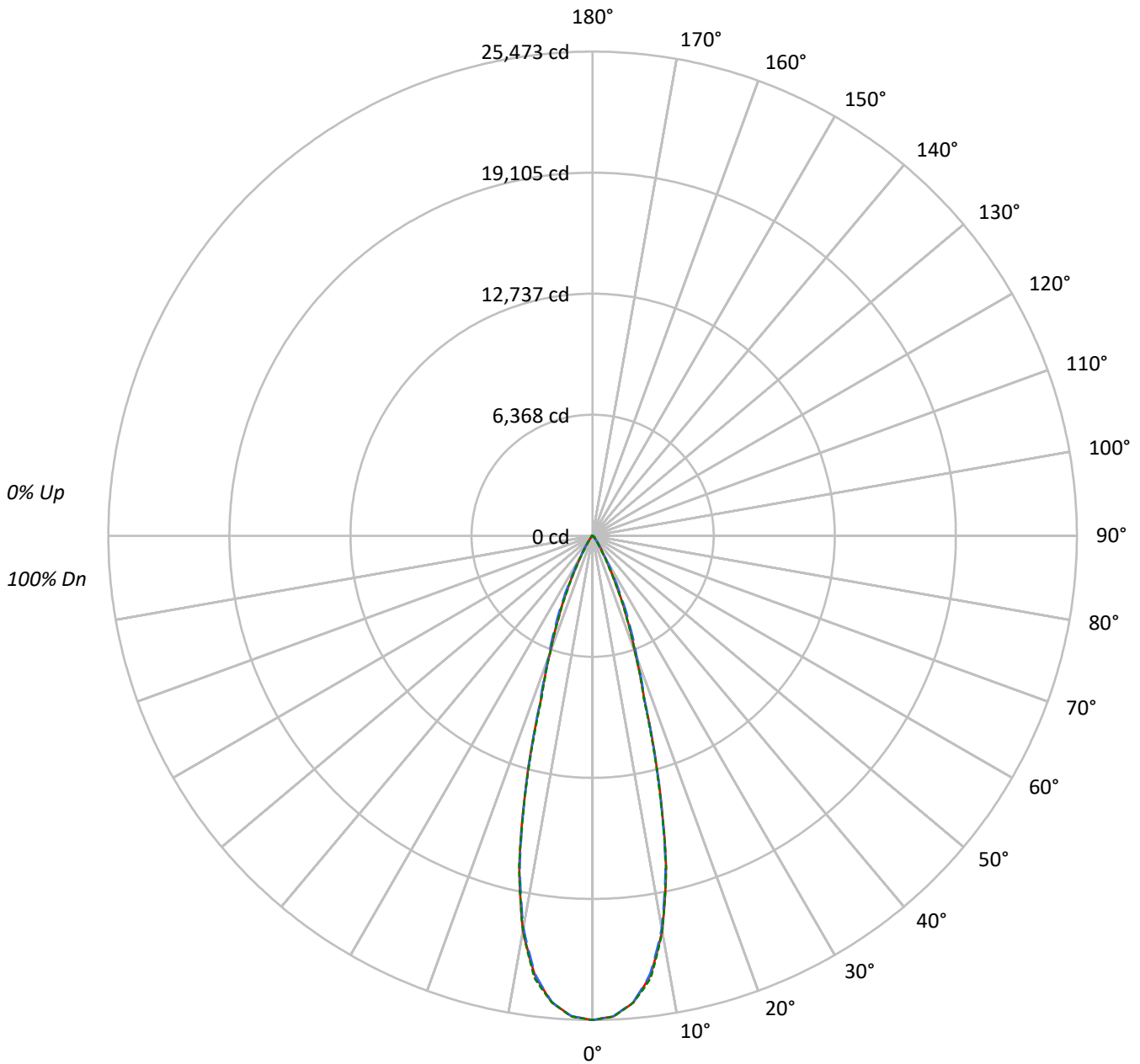


Downlight

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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	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°	1949805	1949805	1949805
5°	1893833	1891620	1893925
10°	1640346	1628773	1639957
15°	1070240	1064495	1059146
20°	532183	552148	531466
25°	268073	302303	262583
30°	107334	116951	93511
35°	49786	47684	39965
40°	21493	23871	20244
45°	15166	18814	15296
50°	5216	13706	5513
55°	3003	5672	3176
60°	2113	2495	2113
65°	1358	1358	1358
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18814 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2240.0	28.3
10°-20°	3607.5	45.5
20°-30°	1558.9	19.7
30°-40°	355.3	4.5
40°-50°	122.0	1.5
50°-60°	29.8	0.4
60°-70°	7.7	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°	7406.4	93.5
0°-40°	7761.7	98.0
0°-60°	7913.5	99.9
0°-90°	7922.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7922.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25473	25473	25473	25473	25473	
5°	24648	24624	24619	24670	24649	2242
15°	13506	13343	13433	13389	13366	3616
25°	3174	3294	3579	3210	3109	1519
35°	533	544	510	506	428	361
45°	140	174	174	174	141	99
55°	22	24	42	25	24	22
65°	8	8	8	8	8	7
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°	25473.2	25473.2	25473.2	25473.2	25473.2
2.5°	25304.3	25286.8	25296.8	25309.4	25314.4
5°	24647.8	24624.0	24619.0	24670.3	24649.0
7.5°	23323.3	23289.6	23238.3	23354.6	23463.4
10°	21104.7	21067.2	20955.8	21010.9	21099.7
12.5°	17829.2	17707.9	17705.4	17880.5	17856.7
15°	13505.7	13343.2	13433.2	13389.4	13365.7
17.5°	9082.2	9019.7	9139.7	9103.5	8947.1
20°	6533.4	6549.6	6778.5	6663.4	6524.6
22.5°	4767.5	4826.2	5097.6	4801.2	4692.4
25°	3174.1	3294.2	3579.4	3210.4	3109.1
27.5°	1952.3	2007.3	2296.2	1927.2	1872.2
30°	1214.4	1186.9	1323.2	1135.6	1058.0
32.5°	796.7	761.6	805.4	722.9	660.3
35°	532.8	544.0	510.3	506.5	427.7
37.5°	332.7	382.7	337.7	360.2	275.1
40°	215.1	277.6	238.9	263.9	202.6
42.5°	176.3	213.9	196.4	208.9	180.1
45°	140.1	173.8	173.8	173.8	141.3
47.5°	77.5	116.3	148.8	118.8	82.5
50°	43.8	58.8	115.1	61.3	46.3
52.5°	30.0	33.8	78.8	35.0	31.3
55°	22.5	23.8	42.5	25.0	23.8
57.5°	17.5	18.8	22.5	18.8	17.5
60°	13.8	13.8	16.3	15.0	13.8
62.5°	10.0	10.0	11.3	10.0	10.0
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.8	5.0	5.0	5.0	5.0
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	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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