

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: P753827

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753827
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-EU4DR3070959040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7865.8 lumens
Efficiency: N/A
Efficacy: 99.7 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

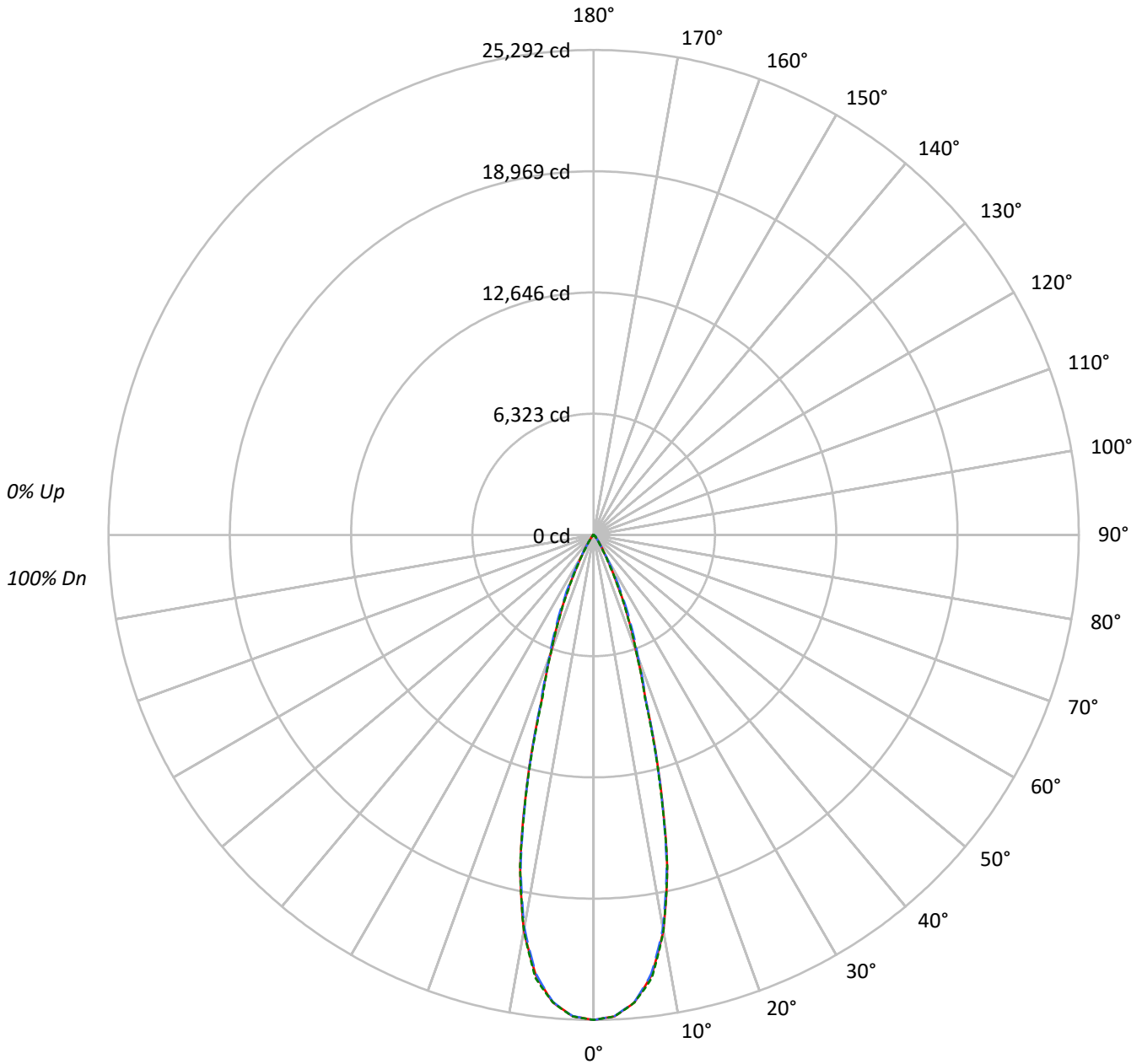


Downlight

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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°	1935974	1935974	1935974
5°	1880402	1878205	1880494
10°	1628711	1617223	1628322
15°	1062656	1056943	1051633
20°	528404	548230	527703
25°	266172	300158	260725
30°	106574	116120	92848
35°	49431	47338	39685
40°	21343	23701	20104
45°	15057	18684	15187
50°	5180	13599	5466
55°	2989	5632	3149
60°	2097	2465	2097
65°	1358	1358	1358
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18684 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2224.1	28.3
10°-20°	3581.9	45.5
20°-30°	1547.8	19.7
30°-40°	352.8	4.5
40°-50°	121.1	1.5
50°-60°	29.6	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°	7353.9	93.5
0°-40°	7706.6	98.0
0°-60°	7857.4	99.9
0°-90°	7865.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7865.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25292	25292	25292	25292	25292	
5°	24473	24449	24444	24495	24474	2226
15°	13410	13248	13338	13294	13271	3591
25°	3152	3271	3554	3188	3087	1509
35°	529	540	507	503	425	359
45°	139	173	173	173	140	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°	25292.5	25292.5	25292.5	25292.5	25292.5
2.5°	25124.9	25107.5	25117.4	25129.9	25134.8
5°	24473.0	24449.4	24444.4	24495.3	24474.2
7.5°	23157.9	23124.4	23073.5	23189.0	23297.0
10°	20955.0	20917.7	20807.2	20861.9	20950.0
12.5°	17702.8	17582.3	17579.8	17753.7	17730.1
15°	13410.0	13248.5	13337.9	13294.5	13270.9
17.5°	9017.8	8955.7	9074.9	9038.9	8883.7
20°	6487.0	6503.2	6730.4	6616.2	6478.4
22.5°	4733.7	4792.0	5061.5	4767.2	4659.1
25°	3151.6	3270.8	3554.0	3187.6	3087.1
27.5°	1938.4	1993.1	2279.9	1913.6	1858.9
30°	1205.8	1178.4	1313.8	1127.5	1050.5
32.5°	791.0	756.2	799.7	717.7	655.7
35°	529.0	540.2	506.6	502.9	424.7
37.5°	330.3	380.0	335.3	357.6	273.2
40°	213.6	275.7	237.2	262.0	201.2
42.5°	175.1	212.3	195.0	207.4	178.8
45°	139.1	172.6	172.6	172.6	140.3
47.5°	77.0	115.5	147.8	118.0	82.0
50°	43.5	58.4	114.2	60.8	45.9
52.5°	29.8	33.5	78.2	34.8	31.0
55°	22.4	23.6	42.2	24.8	23.6
57.5°	17.4	18.6	22.4	18.6	17.4
60°	13.7	13.7	16.1	14.9	13.7
62.5°	9.9	9.9	11.2	9.9	9.9
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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