

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: P752995

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752995
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: LD4D75BD010-EU4DR3070959024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6002.4 lumens
Efficiency: N/A
Efficacy: 82.9 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): 72.4
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

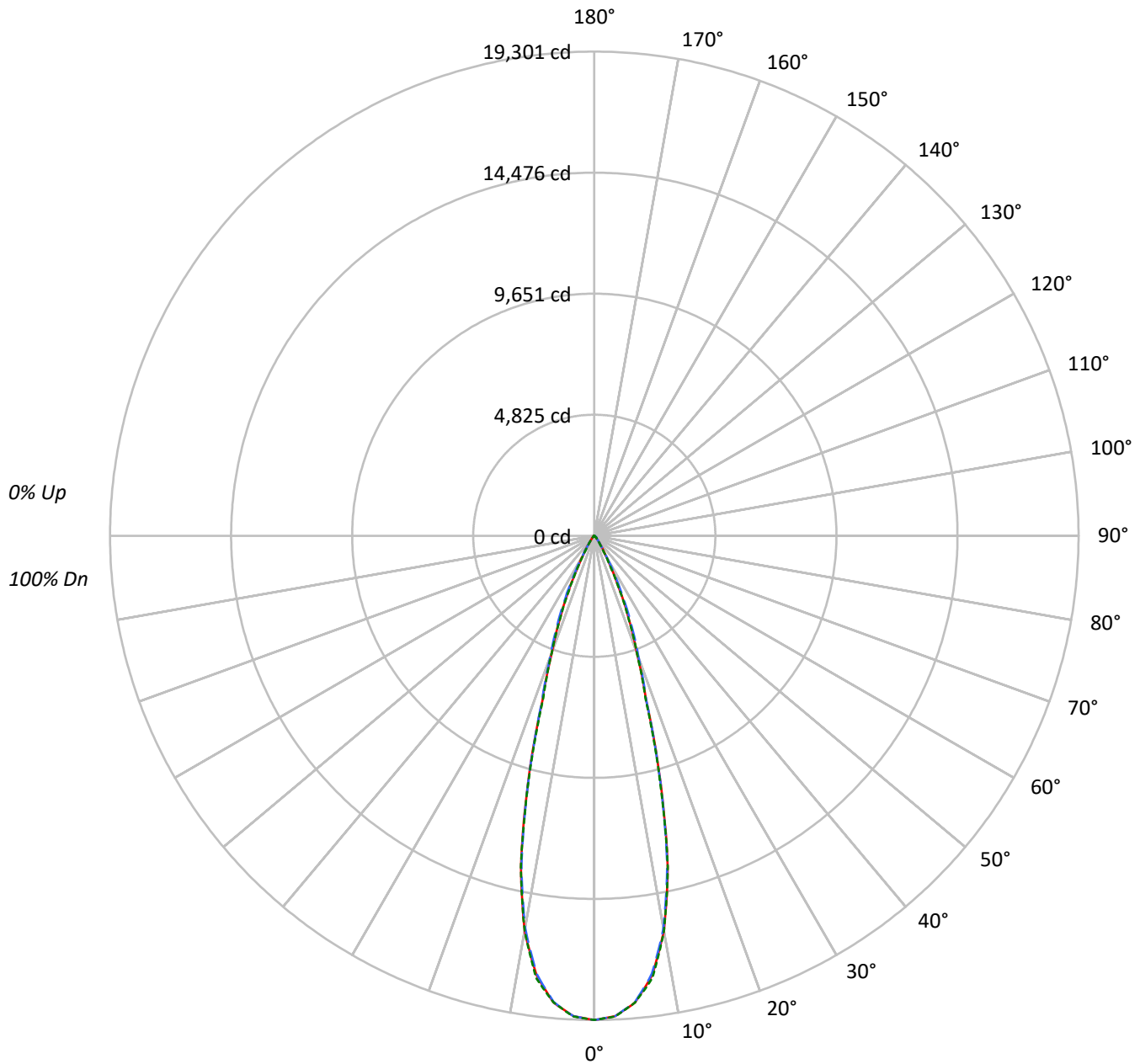


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	1477349	1477349	1477349
5°	1434939	1433264	1435008
10°	1242872	1234105	1242577
15°	810915	806557	802499
20°	403231	418357	402685
25°	203117	229045	198954
30°	81323	88615	70858
35°	37723	36125	30285
40°	16287	18086	15338
45°	11485	14256	11593
50°	3953	10384	4180
55°	2282	4297	2402
60°	1592	1883	1592
65°	1032	1032	1032
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1697.2	28.3
10°-20°	2733.4	45.5
20°-30°	1181.2	19.7
30°-40°	269.2	4.5
40°-50°	92.4	1.5
50°-60°	22.6	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5611.7	93.5
0°-40°	5881.0	98.0
0°-60°	5996.0	99.9
0°-90°	6002.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6002.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19301	19301	19301	19301	19301	
5°	18675	18657	18654	18692	18676	1699
15°	10233	10110	10178	10145	10127	2740
25°	2405	2496	2712	2432	2356	1151
35°	404	412	387	384	324	274
45°	106	132	132	132	107	75
55°	17	18	32	19	18	17
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19300.8	19300.8	19300.8	19300.8	19300.8
2.5°	19172.8	19159.6	19167.2	19176.6	19180.4
5°	18675.4	18657.3	18653.6	18692.4	18676.3
7.5°	17671.8	17646.3	17607.4	17695.5	17778.0
10°	15990.8	15962.4	15878.0	15919.7	15987.0
12.5°	13509.0	13417.1	13415.2	13547.9	13529.9
15°	10233.2	10110.0	10178.2	10145.0	10127.0
17.5°	6881.5	6834.1	6925.1	6897.6	6779.1
20°	4950.3	4962.6	5136.0	5048.8	4943.6
22.5°	3612.3	3656.8	3862.4	3637.8	3555.4
25°	2405.0	2496.0	2712.0	2432.5	2355.7
27.5°	1479.2	1520.9	1739.8	1460.3	1418.6
30°	920.1	899.3	1002.6	860.4	801.7
32.5°	603.6	577.1	610.3	547.7	500.3
35°	403.7	412.2	386.6	383.8	324.1
37.5°	252.1	290.0	255.9	272.9	208.5
40°	163.0	210.4	181.0	199.9	153.5
42.5°	133.6	162.0	148.8	158.2	136.5
45°	106.1	131.7	131.7	131.7	107.1
47.5°	58.8	88.1	112.8	90.0	62.5
50°	33.2	44.5	87.2	46.4	35.1
52.5°	22.7	25.6	59.7	26.5	23.7
55°	17.1	18.0	32.2	19.0	18.0
57.5°	13.3	14.2	17.1	14.2	13.3
60°	10.4	10.4	12.3	11.4	10.4
62.5°	7.6	7.6	8.5	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)