

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: P753034

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753034
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-EU4DR3070959035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7078.7 lumens
Efficiency: N/A
Efficacy: 97.8 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

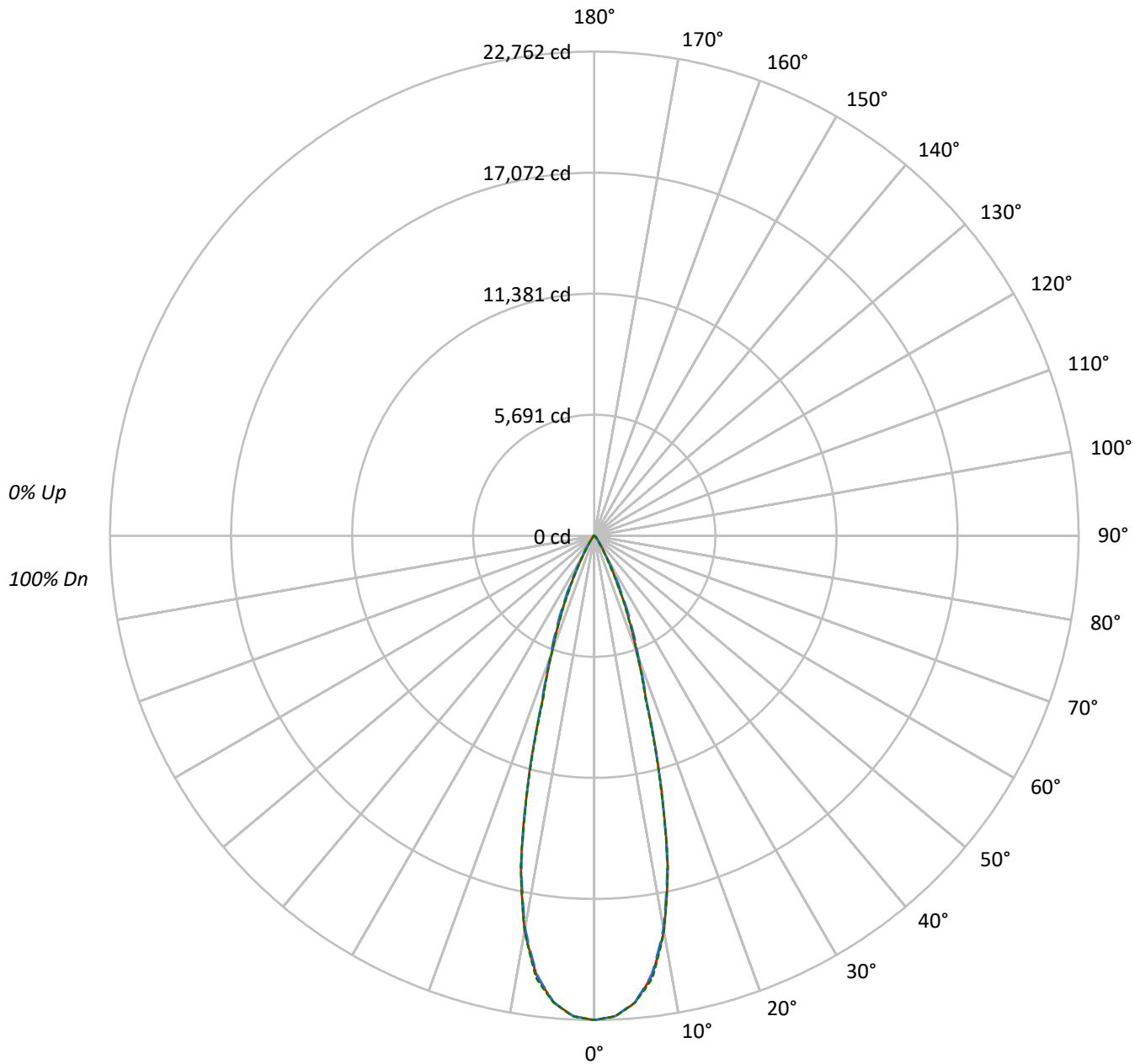


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1742243	1742243	1742243
5°	1692224	1690249	1692316
10°	1465723	1455386	1465381
15°	956311	951176	946398
20°	475531	493370	474895
25°	239535	270117	234628
30°	95906	104497	83559
35°	44488	42600	35714
40°	19205	21323	18086
45°	13553	16811	13672
50°	4656	12241	4918
55°	2682	5071	2829
60°	1883	2220	1883
65°	1213	1213	1213
70°	761	492	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16811 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2001.5	28.3
10°-20°	3223.5	45.5
20°-30°	1393.0	19.7
30°-40°	317.5	4.5
40°-50°	109.0	1.5
50°-60°	26.6	0.4
60°-70°	6.9	0.1
70°-80°	0.7	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°	6618.0	93.5
0°-40°	6935.4	98.0
0°-60°	7071.1	99.9
0°-90°	7078.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7078.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22762	22762	22762	22762	22762	
5°	22024	22003	21998	22044	22025	2003
15°	12068	11923	12003	11964	11943	3231
25°	2836	2944	3198	2869	2778	1358
35°	476	486	456	453	382	323
45°	125	155	155	155	126	89
55°	20	21	38	22	21	20
65°	7	7	7	7	7	7
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°	22761.5	22761.5	22761.5	22761.5	22761.5
2.5°	22610.6	22595.0	22603.9	22615.1	22619.6
5°	22023.9	22002.7	21998.2	22044.0	22025.1
7.5°	20840.5	20810.3	20764.5	20868.4	20965.7
10°	18858.0	18824.5	18725.0	18774.2	18853.6
12.5°	15931.3	15822.9	15820.6	15977.1	15955.8
15°	12068.0	11922.7	12003.2	11964.1	11942.9
17.5°	8115.4	8059.5	8166.8	8134.4	7994.7
20°	5837.9	5852.4	6056.9	5954.1	5830.1
22.5°	4260.0	4312.5	4555.0	4290.1	4192.9
25°	2836.2	2943.5	3198.3	2868.7	2778.1
27.5°	1744.4	1793.6	2051.8	1722.1	1672.9
30°	1085.1	1060.5	1182.3	1014.7	945.4
32.5°	711.9	680.6	719.7	645.9	590.0
35°	476.1	486.1	455.9	452.6	382.2
37.5°	297.3	342.0	301.7	321.8	245.9
40°	192.2	248.1	213.4	235.8	181.0
42.5°	157.6	191.1	175.4	186.6	160.9
45°	125.2	155.3	155.3	155.3	126.3
47.5°	69.3	103.9	133.0	106.2	73.8
50°	39.1	52.5	102.8	54.8	41.3
52.5°	26.8	30.2	70.4	31.3	27.9
55°	20.1	21.2	38.0	22.4	21.2
57.5°	15.6	16.8	20.1	16.8	15.6
60°	12.3	12.3	14.5	13.4	12.3
62.5°	8.9	8.9	10.1	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.2	2.2	2.2	3.4
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)