

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: P756176

Luminaire Tested: LD4D95BD010-EU4DR3070959050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756176
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: LD4D95BD010-EU4DR3070959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 8170.0 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): 99.2
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

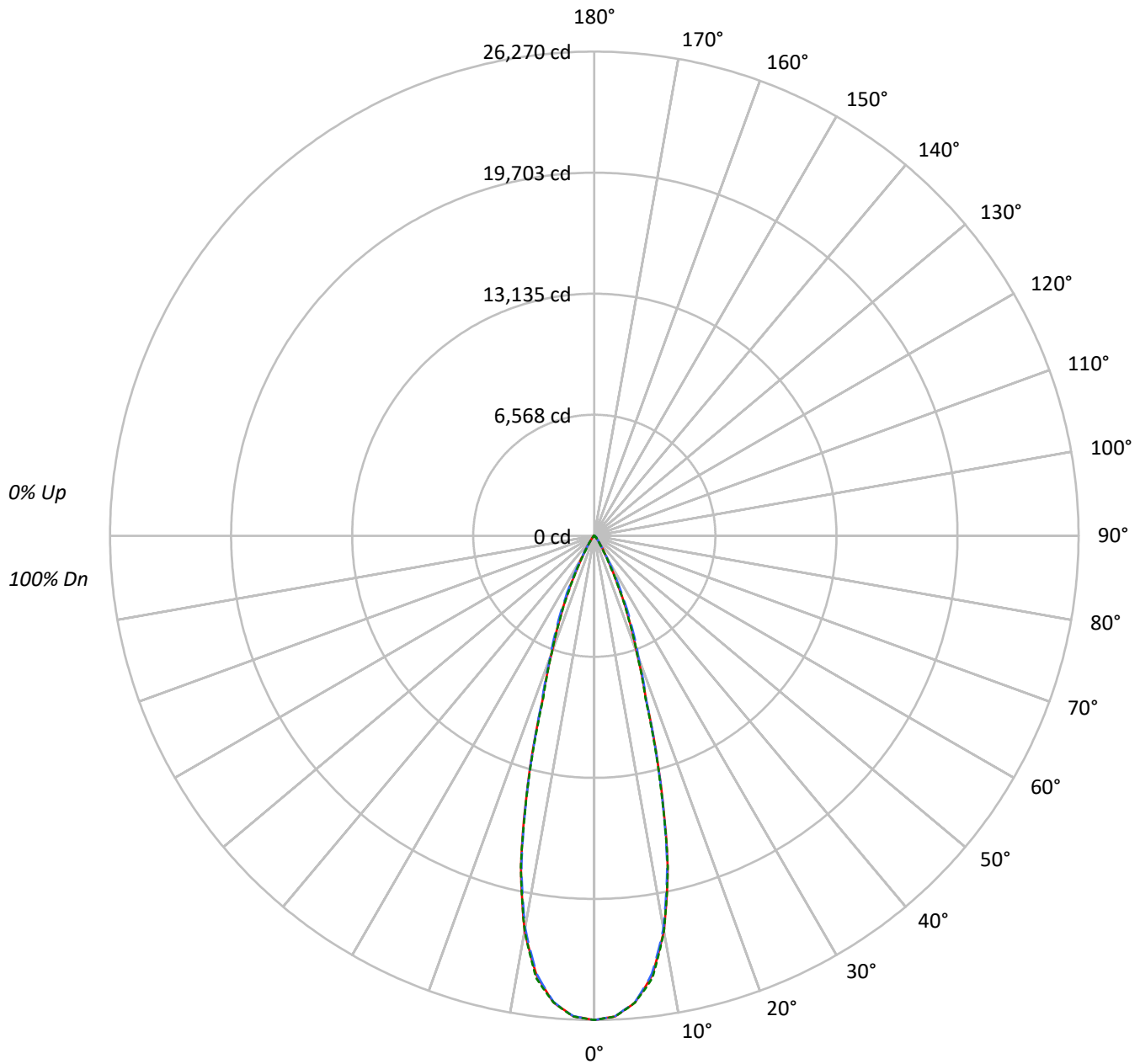


Downlight

TEST NUMBER: P756176

CATALOG NUMBER: LD4D95BD010-EU4DR3070959050-4LBDP1MW

Luminous Intensity Polar Plot



TEST NUMBER: P756176

CATALOG NUMBER: LD4D95BD010-EU4DR3070959050-4LBDP1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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°	2010826	2010826	2010826
5°	1953104	1950822	1953204
10°	1691683	1679752	1691279
15°	1103736	1097809	1092293
20°	548841	569433	548100
25°	276468	311762	270801
30°	110693	120610	96445
35°	51347	49169	41217
40°	22162	24610	20873
45°	15642	19409	15772
50°	5371	14135	5680
55°	3096	5858	3270
60°	2174	2572	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: 19409 cd/sqm



TEST NUMBER: P756176

CATALOG NUMBER: LD4D95BD010-EU4DR3070959050-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2310.1	28.3
10°-20°	3720.4	45.5
20°-30°	1607.7	19.7
30°-40°	366.4	4.5
40°-50°	125.8	1.5
50°-60°	30.7	0.4
60°-70°	8.0	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°	7638.2	93.5
0°-40°	8004.6	98.0
0°-60°	8161.2	99.9
0°-90°	8170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26270	26270	26270	26270	26270	
5°	25419	25395	25390	25442	25420	2312
15°	13928	13761	13854	13808	13784	3730
25°	3274	3397	3691	3311	3206	1567
35°	550	561	526	522	441	373
45°	144	179	179	179	146	103
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	

TEST NUMBER: P756176

CATALOG NUMBER: LD4D95BD010-EU4DR3070959050-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26270.4	26270.4	26270.4	26270.4	26270.4
2.5°	26096.3	26078.3	26088.6	26101.5	26106.6
5°	25419.2	25394.7	25389.5	25442.4	25420.5
7.5°	24053.3	24018.5	23965.6	24085.5	24197.7
10°	21765.2	21726.5	21611.7	21668.5	21760.0
12.5°	18387.2	18262.1	18259.6	18440.1	18415.6
15°	13928.4	13760.8	13853.6	13808.5	13784.0
17.5°	9366.5	9302.0	9425.8	9388.4	9227.2
20°	6737.9	6754.6	6990.7	6872.0	6728.8
22.5°	4916.7	4977.3	5257.2	4951.5	4839.3
25°	3273.5	3397.3	3691.4	3310.9	3206.4
27.5°	2013.4	2070.1	2368.1	1987.6	1930.8
30°	1252.4	1224.0	1364.6	1171.1	1091.2
32.5°	821.6	785.5	830.6	745.5	681.0
35°	549.5	561.1	526.2	522.4	441.1
37.5°	343.1	394.7	348.2	371.5	283.8
40°	221.8	286.3	246.3	272.1	208.9
42.5°	181.9	220.6	202.5	215.4	185.7
45°	144.5	179.3	179.3	179.3	145.7
47.5°	80.0	120.0	153.5	122.5	85.1
50°	45.1	60.6	118.7	63.2	47.7
52.5°	31.0	34.8	81.3	36.1	32.2
55°	23.2	24.5	43.9	25.8	24.5
57.5°	18.1	19.3	23.2	19.3	18.1
60°	14.2	14.2	16.8	15.5	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	5.2	5.2	5.2	5.2
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)