

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: P756167

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756167
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-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: 9098.9 lumens
Efficiency: N/A
Efficacy: 91.7 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): 99.2
Input Voltage (V): NR
Input Current (Ain): 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

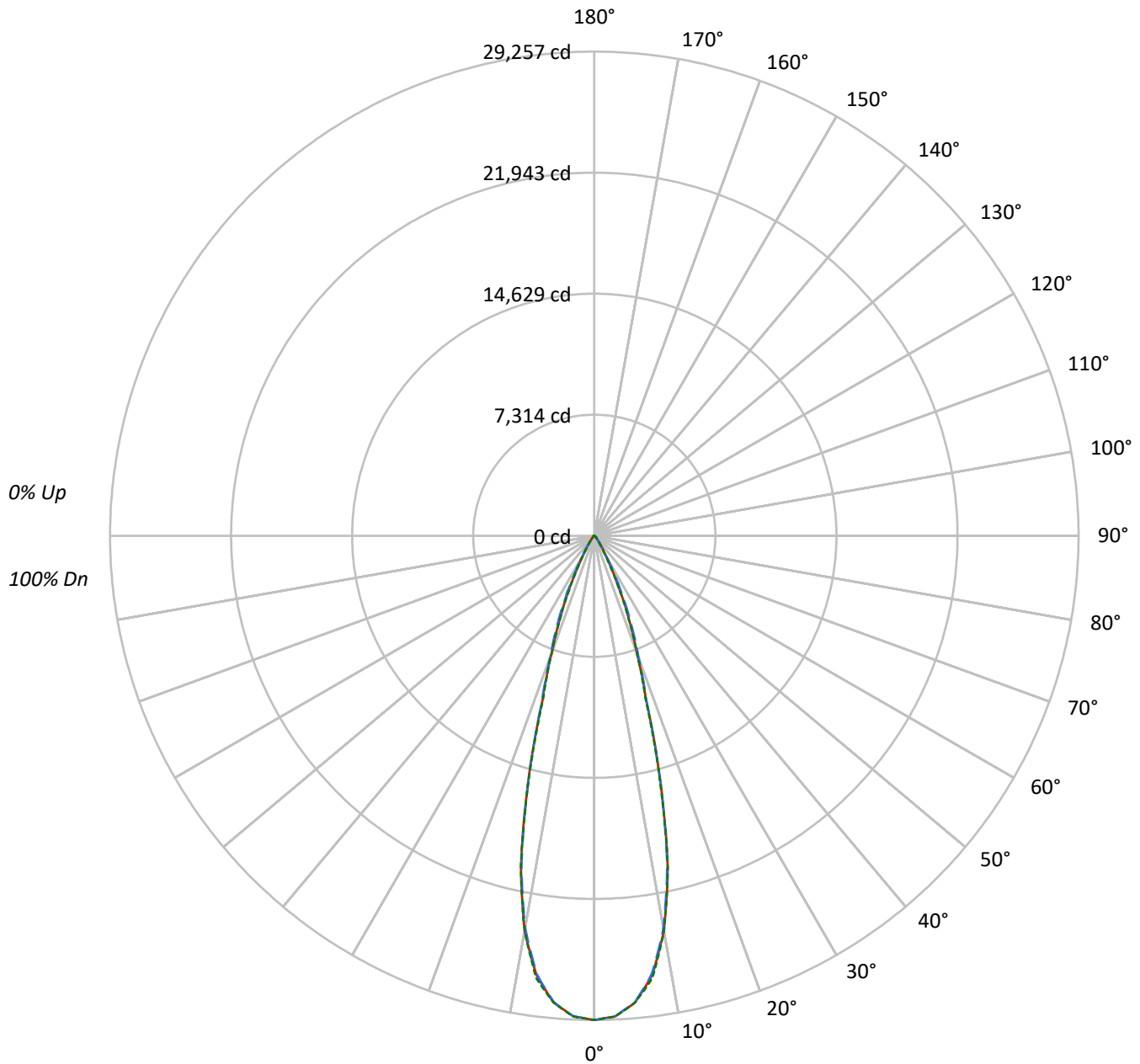


Downlight

TEST NUMBER: P756167

CATALOG NUMBER: LD4D95BD010-EU4DR3070959040-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P756167

CATALOG NUMBER: LD4D95BD010-EU4DR3070959040-4LBS1MW

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°	2239461	2239461	2239461
5°	2175175	2172632	2175282
10°	1884027	1870744	1883584
15°	1229234	1222633	1216484
20°	611244	634174	610421
25°	307902	347208	301593
30°	123279	134327	107405
35°	57177	54766	45908
40°	24690	27418	23251
45°	17417	21617	17569
50°	5990	15742	6323
55°	3456	6512	3643
60°	2419	2863	2419
65°	1558	1558	1558
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21617 cd/sqm



TEST NUMBER: P756167

CATALOG NUMBER: LD4D95BD010-EU4DR3070959040-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2572.7	28.3
10°-20°	4143.4	45.5
20°-30°	1790.5	19.7
30°-40°	408.1	4.5
40°-50°	140.1	1.5
50°-60°	34.2	0.4
60°-70°	8.9	0.1
70°-80°	0.9	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°	8506.7	93.5
0°-40°	8914.8	98.0
0°-60°	9089.1	99.9
0°-90°	9098.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9098.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29257	29257	29257	29257	29257	
5°	28309	28282	28276	28335	28311	2575
15°	15512	15325	15429	15378	15351	4154
25°	3646	3784	4111	3687	3571	1745
35°	612	625	586	582	491	415
45°	161	200	200	200	162	114
55°	26	27	49	29	27	25
65°	9	9	9	9	9	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P756167

CATALOG NUMBER: LD4D95BD010-EU4DR3070959040-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29257.4	29257.4	29257.4	29257.4	29257.4
2.5°	29063.5	29043.4	29054.9	29069.3	29075.0
5°	28309.4	28282.1	28276.3	28335.2	28310.8
7.5°	26788.2	26749.4	26690.5	26824.1	26949.1
10°	24239.9	24196.8	24069.0	24132.2	24234.2
12.5°	20477.9	20338.6	20335.7	20536.8	20509.5
15°	15512.1	15325.4	15428.8	15378.5	15351.2
17.5°	10431.4	10359.6	10497.5	10455.9	10276.3
20°	7504.0	7522.6	7785.5	7653.4	7493.9
22.5°	5475.7	5543.2	5854.9	5514.5	5389.5
25°	3645.7	3783.6	4111.1	3687.3	3571.0
27.5°	2242.3	2305.5	2637.3	2213.6	2150.4
30°	1394.8	1363.2	1519.8	1304.3	1215.2
32.5°	915.0	874.8	925.1	830.3	758.4
35°	611.9	624.9	586.1	581.8	491.3
37.5°	382.1	439.6	387.8	413.7	316.0
40°	247.1	318.9	274.4	303.1	232.7
42.5°	202.5	245.6	225.5	239.9	206.8
45°	160.9	199.7	199.7	199.7	162.3
47.5°	89.1	133.6	170.9	136.5	94.8
50°	50.3	67.5	132.2	70.4	53.1
52.5°	34.5	38.8	90.5	40.2	35.9
55°	25.9	27.3	48.8	28.7	27.3
57.5°	20.1	21.5	25.9	21.5	20.1
60°	15.8	15.8	18.7	17.2	15.8
62.5°	11.5	11.5	12.9	11.5	11.5
65°	8.6	8.6	8.6	8.6	8.6
67.5°	4.3	5.7	5.7	5.7	5.7
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)