

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: P756150

Luminaire Tested: LD4D95BD010-EU4DR3070959035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756150
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-EU4DR3070959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 7749.7 lumens
Efficiency: N/A
Efficacy: 78.1 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

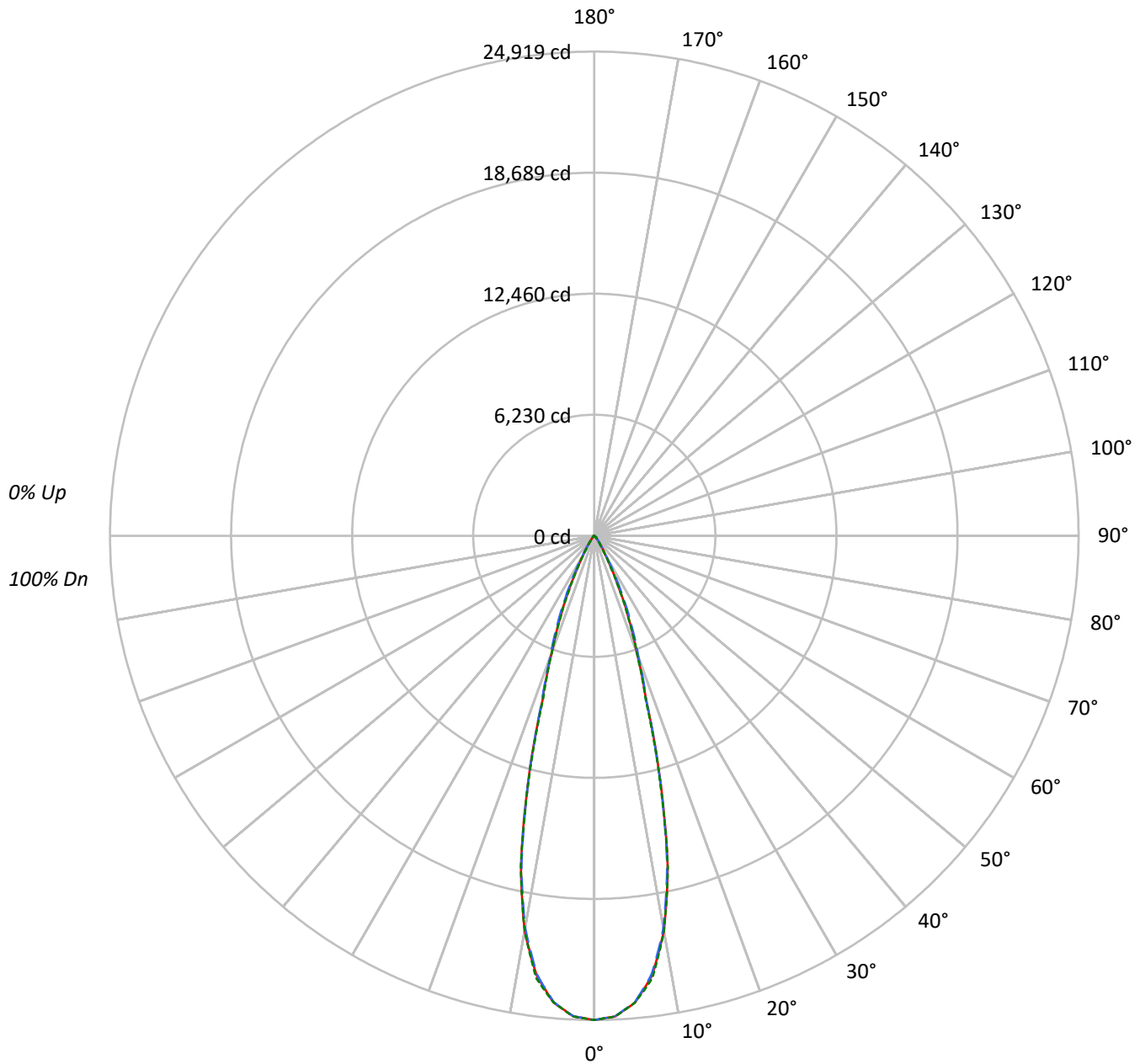


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1907393	1907393	1907393
5°	1852634	1850474	1852733
10°	1604663	1593346	1604282
15°	1046966	1041340	1036102
20°	520608	540141	519908
25°	262245	295724	256874
30°	105001	114405	91478
35°	48702	46646	39096
40°	21023	23351	19804
45°	14830	18413	14960
50°	5097	13408	5394
55°	2936	5551	3096
60°	2067	2434	2067
65°	1322	1322	1322
70°	828	537	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: 18413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2191.3	28.3
10°-20°	3529.0	45.5
20°-30°	1525.0	19.7
30°-40°	347.6	4.5
40°-50°	119.3	1.5
50°-60°	29.2	0.4
60°-70°	7.5	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°	7245.3	93.5
0°-40°	7592.9	98.0
0°-60°	7741.4	99.9
0°-90°	7749.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7749.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24919	24919	24919	24919	24919	
5°	24112	24088	24084	24134	24113	2193
15°	13212	13053	13141	13098	13075	3538
25°	3105	3223	3502	3141	3042	1486
35°	521	532	499	496	418	354
45°	137	170	170	170	138	97
55°	22	23	42	24	23	21
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°	24919.1	24919.1	24919.1	24919.1	24919.1
2.5°	24753.9	24736.8	24746.6	24758.8	24763.7
5°	24111.6	24088.4	24083.5	24133.7	24112.9
7.5°	22816.0	22783.0	22732.8	22846.6	22953.0
10°	20645.6	20608.9	20500.0	20553.9	20640.7
12.5°	17441.4	17322.7	17320.3	17491.6	17468.3
15°	13212.0	13052.9	13141.0	13098.2	13074.9
17.5°	8884.6	8823.5	8940.9	8905.4	8752.5
20°	6391.3	6407.2	6631.1	6518.5	6382.7
22.5°	4663.8	4721.3	4986.8	4696.8	4590.4
25°	3105.1	3222.6	3501.5	3140.6	3041.5
27.5°	1909.8	1963.6	2246.2	1885.3	1831.5
30°	1188.0	1161.0	1294.4	1110.9	1035.0
32.5°	779.3	745.1	787.9	707.2	646.0
35°	521.2	532.2	499.2	495.5	418.4
37.5°	325.4	374.4	330.3	352.4	269.2
40°	210.4	271.6	233.7	258.1	198.2
42.5°	172.5	209.2	192.1	204.3	176.2
45°	137.0	170.1	170.1	170.1	138.2
47.5°	75.9	113.8	145.6	116.2	80.7
50°	42.8	57.5	112.6	59.9	45.3
52.5°	29.4	33.0	77.1	34.3	30.6
55°	22.0	23.2	41.6	24.5	23.2
57.5°	17.1	18.4	22.0	18.4	17.1
60°	13.5	13.5	15.9	14.7	13.5
62.5°	9.8	9.8	11.0	9.8	9.8
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.4	2.4	2.4	3.7
72.5°	2.4	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)