

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: P756137

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756137
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-EU4DR3070959030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7668.9 lumens
Efficiency: N/A
Efficacy: 77.3 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

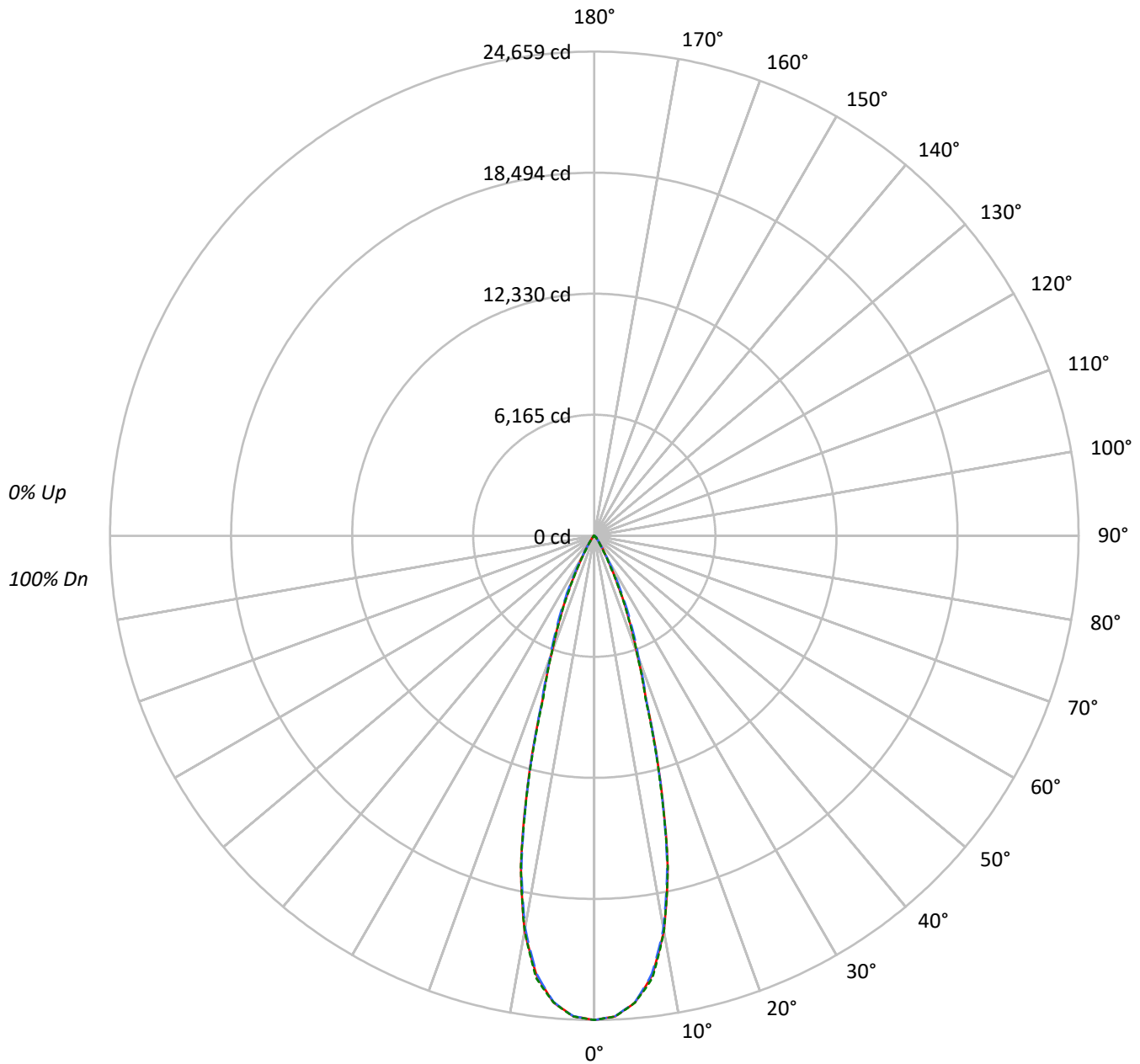


Downlight

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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					0
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°	1887514	1887514	1887514
5°	1833325	1831189	1833417
10°	1587937	1576736	1587563
15°	1036054	1030483	1025309
20°	515183	534505	514491
25°	259509	292641	254197
30°	103905	113212	90524
35°	48198	46160	38694
40°	20803	23102	19594
45°	14679	18218	14808
50°	5049	13266	5335
55°	2909	5498	3069
60°	2036	2403	2036
65°	1322	1322	1322
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2168.4	28.3
10°-20°	3492.3	45.5
20°-30°	1509.1	19.7
30°-40°	344.0	4.5
40°-50°	118.1	1.5
50°-60°	28.9	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°	7169.8	93.5
0°-40°	7513.7	98.0
0°-60°	7660.7	99.9
0°-90°	7668.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7668.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24659	24659	24659	24659	24659	
5°	23860	23837	23832	23882	23862	2170
15°	13074	12917	13004	12962	12939	3501
25°	3073	3189	3465	3108	3010	1471
35°	516	527	494	490	414	350
45°	136	168	168	168	137	96
55°	22	23	41	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°	24659.4	24659.4	24659.4	24659.4	24659.4
2.5°	24495.9	24479.0	24488.7	24500.8	24505.6
5°	23860.3	23837.3	23832.5	23882.1	23861.5
7.5°	22578.2	22545.5	22495.9	22608.4	22713.8
10°	20430.4	20394.1	20286.3	20339.6	20425.6
12.5°	17259.6	17142.2	17139.8	17309.3	17286.2
15°	13074.3	12916.9	13004.0	12961.7	12938.7
17.5°	8792.0	8731.5	8847.7	8812.6	8661.3
20°	6324.7	6340.4	6561.9	6450.6	6316.2
22.5°	4615.2	4672.1	4934.8	4647.8	4542.5
25°	3072.7	3189.0	3465.0	3107.8	3009.8
27.5°	1889.9	1943.2	2222.8	1865.7	1812.4
30°	1175.6	1148.9	1280.9	1099.3	1024.2
32.5°	771.2	737.3	779.7	699.8	639.2
35°	515.8	526.7	494.0	490.3	414.1
37.5°	322.0	370.5	326.9	348.7	266.4
40°	208.2	268.8	231.2	255.5	196.1
42.5°	170.7	207.0	190.1	202.2	174.3
45°	135.6	168.3	168.3	168.3	136.8
47.5°	75.1	112.6	144.1	115.0	79.9
50°	42.4	56.9	111.4	59.3	44.8
52.5°	29.1	32.7	76.3	33.9	30.3
55°	21.8	23.0	41.2	24.2	23.0
57.5°	16.9	18.2	21.8	18.2	16.9
60°	13.3	13.3	15.7	14.5	13.3
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
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)