

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: P756135

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756135
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-EU4DR3070959030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8596.9 lumens
Efficiency: N/A
Efficacy: 86.7 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

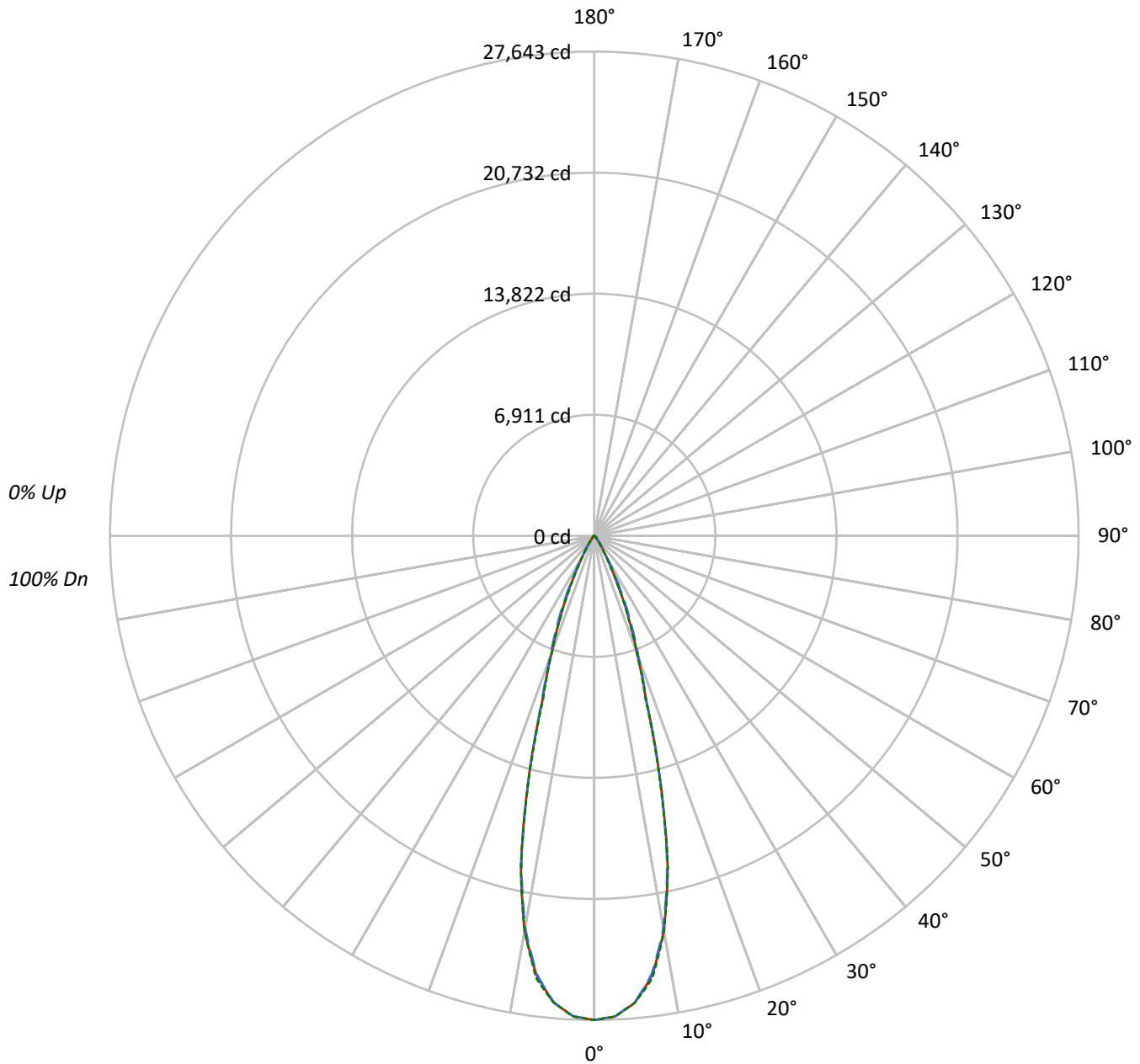


Downlight

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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°	2115912	2115912	2115912
5°	2055165	2052768	2055273
10°	1780086	1767534	1779667
15°	1161417	1155181	1149372
20°	577521	599189	576748
25°	290918	328054	284956
30°	116473	126912	101483
35°	54028	51739	43376
40°	23321	25899	21972
45°	16454	20416	16605
50°	5656	14873	5978
55°	3256	6152	3443
60°	2281	2694	2281
65°	1467	1467	1467
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2430.8	28.3
10°-20°	3914.8	45.5
20°-30°	1691.7	19.7
30°-40°	385.6	4.5
40°-50°	132.4	1.5
50°-60°	32.3	0.4
60°-70°	8.4	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°	8037.4	93.5
0°-40°	8422.9	98.0
0°-60°	8587.6	99.9
0°-90°	8596.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8596.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27643	27643	27643	27643	27643	
5°	26748	26722	26716	26772	26749	2433
15°	14656	14480	14578	14530	14504	3924
25°	3445	3575	3884	3484	3374	1649
35°	578	590	554	550	464	392
45°	152	189	189	189	153	108
55°	24	26	46	27	26	24
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27643.3	27643.3	27643.3	27643.3	27643.3
2.5°	27460.1	27441.1	27451.9	27465.5	27470.9
5°	26747.5	26721.7	26716.3	26772.0	26748.9
7.5°	25310.3	25273.6	25218.0	25344.2	25462.3
10°	22902.6	22861.9	22741.1	22800.8	22897.2
12.5°	19348.1	19216.5	19213.8	19403.8	19378.0
15°	14656.3	14479.9	14577.6	14530.1	14504.3
17.5°	9855.9	9788.1	9918.4	9879.0	9709.3
20°	7090.0	7107.6	7356.0	7231.1	7080.5
22.5°	5173.6	5237.4	5531.9	5210.3	5092.2
25°	3444.6	3574.8	3884.3	3483.9	3374.0
27.5°	2118.6	2178.3	2491.8	2091.4	2031.7
30°	1317.8	1288.0	1435.9	1232.3	1148.2
32.5°	864.5	826.5	874.0	784.5	716.6
35°	578.2	590.4	553.7	549.7	464.2
37.5°	361.0	415.3	366.4	390.9	298.6
40°	233.4	301.3	259.2	286.4	219.9
42.5°	191.4	232.1	213.1	226.7	195.4
45°	152.0	188.6	188.6	188.6	153.4
47.5°	84.1	126.2	161.5	128.9	89.6
50°	47.5	63.8	124.9	66.5	50.2
52.5°	32.6	36.6	85.5	38.0	33.9
55°	24.4	25.8	46.1	27.1	25.8
57.5°	19.0	20.4	24.4	20.4	19.0
60°	14.9	14.9	17.6	16.3	14.9
62.5°	10.9	10.9	12.2	10.9	10.9
65°	8.1	8.1	8.1	8.1	8.1
67.5°	4.1	5.4	5.4	5.4	5.4
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	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)