

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: P756141

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756141
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-EU4DR3070959030-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 8601.9 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 (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

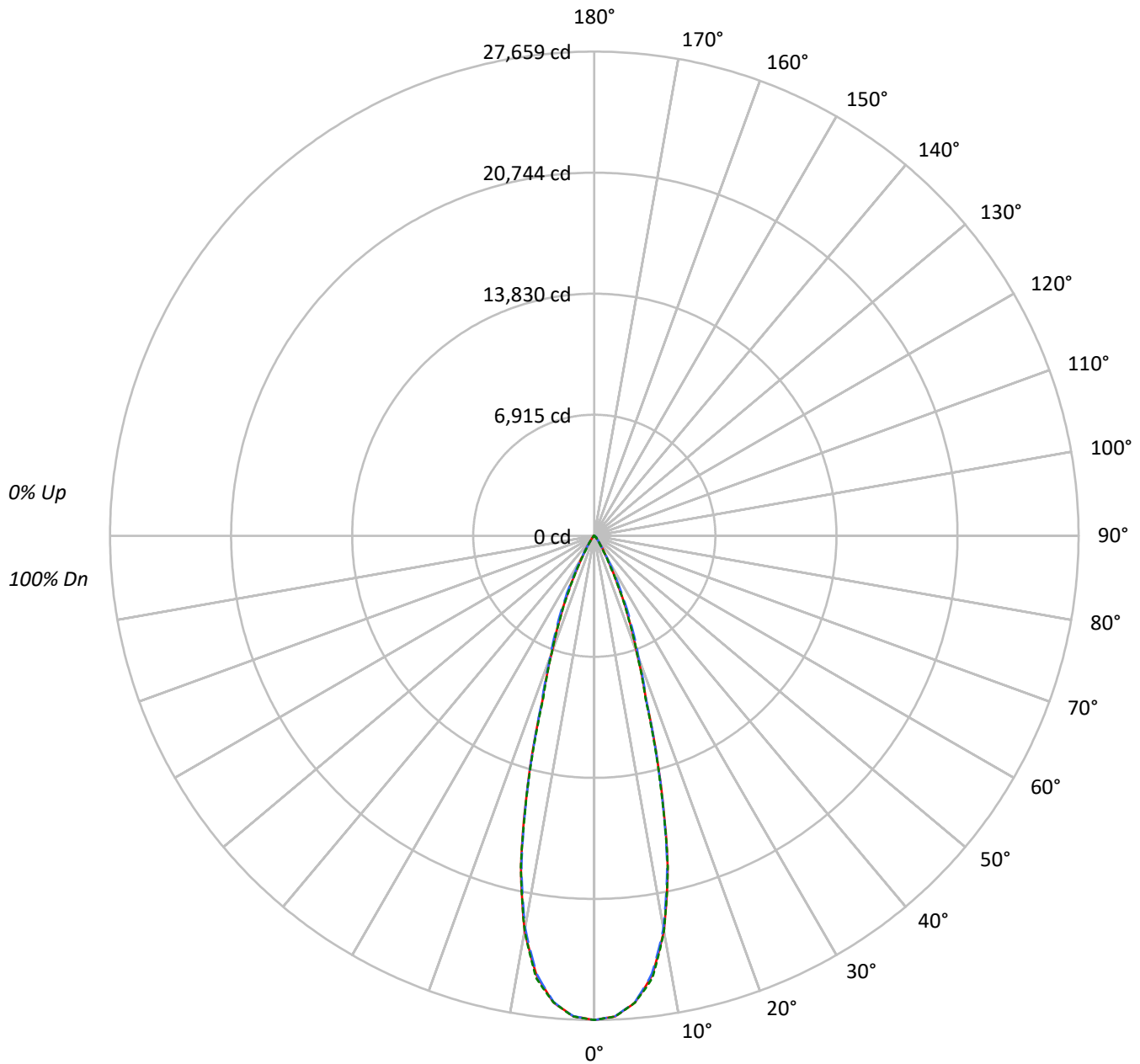


Downlight

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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°	2117137	2117137	2117137
5°	2056364	2053959	2056464
10°	1781120	1768560	1780700
15°	1162091	1155854	1150038
20°	577855	599531	577082
25°	291087	328239	285116
30°	116544	126982	101545
35°	54056	51776	43395
40°	23341	25919	21982
45°	16465	20437	16616
50°	5656	14873	5978
55°	3256	6165	3443
60°	2281	2710	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: 20437 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2432.2	28.3
10°-20°	3917.1	45.5
20°-30°	1692.7	19.7
30°-40°	385.8	4.5
40°-50°	132.5	1.5
50°-60°	32.4	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°	8042.0	93.5
0°-40°	8427.8	98.0
0°-60°	8592.6	99.9
0°-90°	8601.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8601.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27659	27659	27659	27659	27659	
5°	26763	26737	26732	26788	26764	2434
15°	14665	14488	14586	14538	14513	3927
25°	3447	3577	3886	3486	3376	1650
35°	578	591	554	550	464	392
45°	152	189	189	189	154	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°	27659.3	27659.3	27659.3	27659.3	27659.3
2.5°	27476.0	27457.0	27467.9	27481.4	27486.9
5°	26763.1	26737.3	26731.8	26787.5	26764.4
7.5°	25325.0	25288.3	25232.6	25358.9	25477.1
10°	22915.9	22875.2	22754.3	22814.1	22910.5
12.5°	19359.4	19227.6	19224.9	19415.0	19389.2
15°	14664.8	14488.3	14586.1	14538.5	14512.7
17.5°	9861.6	9793.7	9924.1	9884.7	9715.0
20°	7094.1	7111.7	7360.2	7235.3	7084.6
22.5°	5176.6	5240.4	5535.1	5213.3	5095.1
25°	3446.6	3576.9	3886.5	3485.9	3375.9
27.5°	2119.8	2179.6	2493.3	2092.6	2032.9
30°	1318.6	1288.7	1436.7	1233.0	1148.9
32.5°	865.0	827.0	874.5	784.9	717.0
35°	578.5	590.7	554.1	550.0	464.4
37.5°	361.2	415.5	366.7	391.1	298.8
40°	233.6	301.5	259.4	286.5	220.0
42.5°	191.5	232.2	213.2	226.8	195.5
45°	152.1	188.8	188.8	188.8	153.5
47.5°	84.2	126.3	161.6	129.0	89.6
50°	47.5	63.8	124.9	66.5	50.2
52.5°	32.6	36.7	85.6	38.0	33.9
55°	24.4	25.8	46.2	27.2	25.8
57.5°	19.0	20.4	24.4	20.4	19.0
60°	14.9	14.9	17.7	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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)