

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: P756110

Luminaire Tested: LD4D95BD010-EU4DR3070959024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756110
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-EU4DR3070959024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7734.9 lumens
Efficiency: N/A
Efficacy: 78.0 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

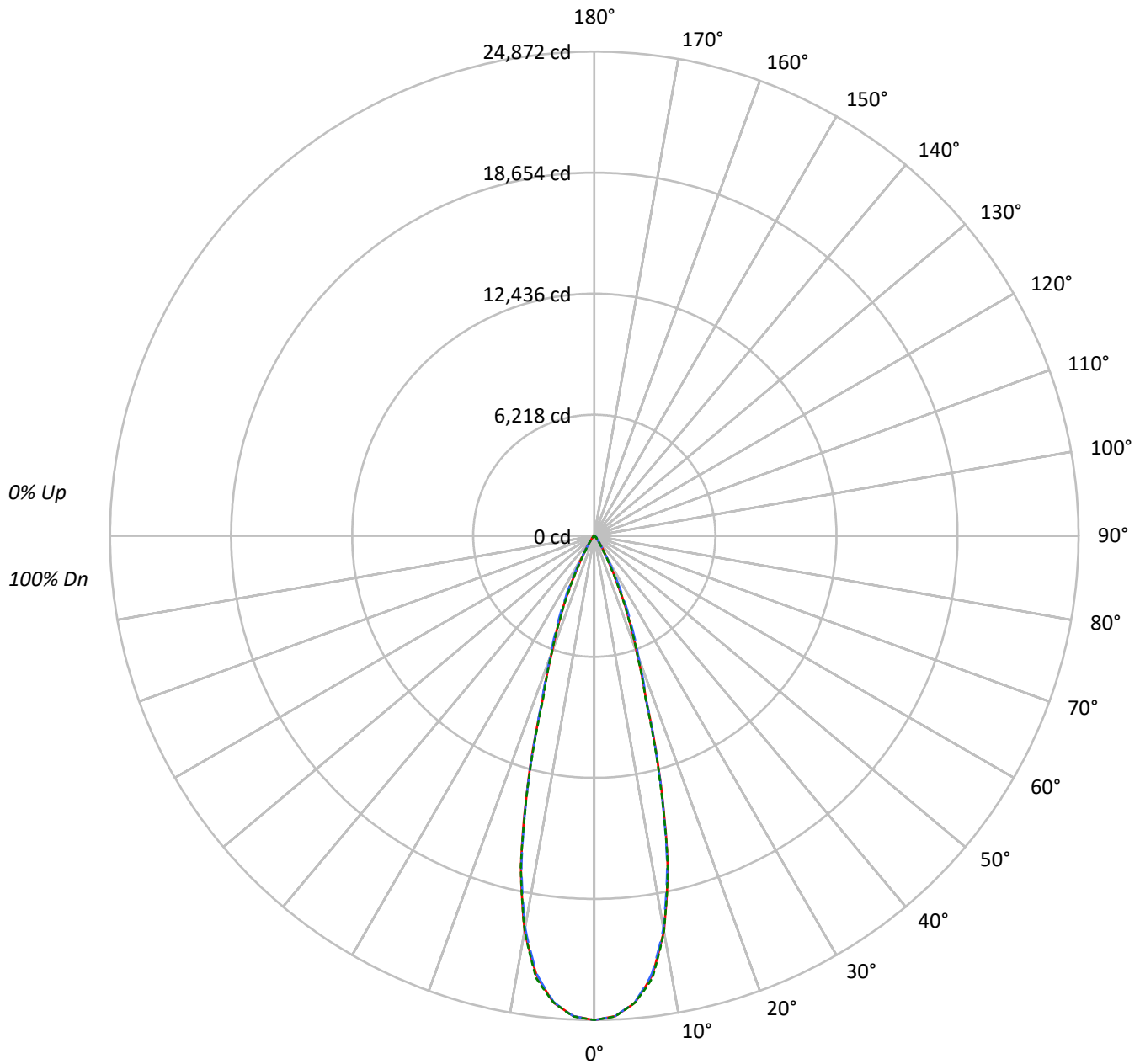


Downlight

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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°	1903757	1903757	1903757
5°	1849099	1846948	1849199
10°	1601600	1590307	1601227
15°	1044969	1039351	1034128
20°	519615	539107	518914
25°	261747	295158	256384
30°	104798	114184	91310
35°	48609	46553	39021
40°	20983	23301	19764
45°	14808	18370	14938
50°	5085	13373	5382
55°	2936	5538	3096
60°	2051	2434	2051
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: 18370 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2187.1	28.3
10°-20°	3522.3	45.5
20°-30°	1522.1	19.7
30°-40°	346.9	4.5
40°-50°	119.1	1.5
50°-60°	29.1	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°	7231.5	93.5
0°-40°	7578.4	98.0
0°-60°	7726.6	99.9
0°-90°	7734.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7734.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24872	24872	24872	24872	24872	
5°	24066	24042	24038	24088	24067	2189
15°	13187	13028	13116	13073	13050	3531
25°	3099	3216	3495	3135	3036	1483
35°	520	531	498	494	418	353
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°	24871.6	24871.6	24871.6	24871.6	24871.6
2.5°	24706.7	24689.6	24699.4	24711.6	24716.5
5°	24065.6	24042.4	24037.6	24087.6	24066.9
7.5°	22772.5	22739.5	22689.5	22803.0	22909.3
10°	20606.2	20569.6	20460.9	20514.7	20601.4
12.5°	17408.2	17289.7	17287.3	17458.2	17435.0
15°	13186.8	13028.0	13115.9	13073.2	13050.0
17.5°	8867.7	8806.7	8923.9	8888.5	8735.8
20°	6379.1	6395.0	6618.4	6506.1	6370.5
22.5°	4654.9	4712.3	4977.2	4687.8	4581.6
25°	3099.2	3216.4	3494.8	3134.6	3035.7
27.5°	1906.2	1959.9	2242.0	1881.7	1828.0
30°	1185.7	1158.8	1291.9	1108.8	1033.1
32.5°	777.8	743.7	786.4	705.8	644.7
35°	520.2	531.2	498.2	494.5	417.6
37.5°	324.8	373.7	329.7	351.7	268.6
40°	210.0	271.1	233.2	257.7	197.8
42.5°	172.2	208.8	191.7	203.9	175.8
45°	136.8	169.7	169.7	169.7	138.0
47.5°	75.7	113.6	145.3	116.0	80.6
50°	42.7	57.4	112.3	59.8	45.2
52.5°	29.3	33.0	76.9	34.2	30.5
55°	22.0	23.2	41.5	24.4	23.2
57.5°	17.1	18.3	22.0	18.3	17.1
60°	13.4	13.4	15.9	14.7	13.4
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



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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)