

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: P1179146

Luminaire Tested: LDA2B158027R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B158027R2050D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

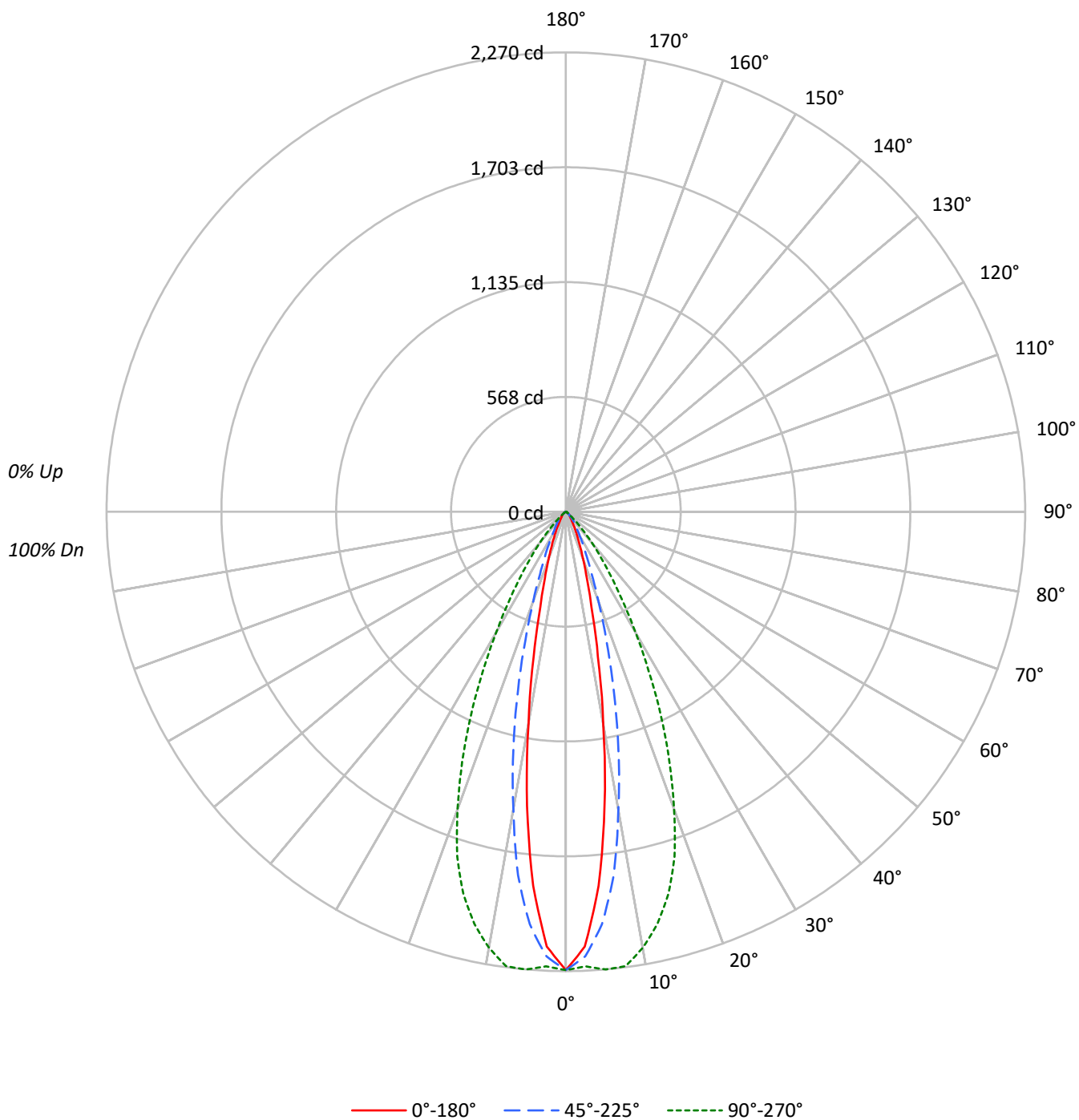
Lumens per Lamp: N/A
Luminaire Lumens: 814.0 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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

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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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1117316	1117316	1117316
5°	918583	1013522	1124358
10°	533185	748954	1096228
15°	248436	466431	999007
20°	130889	245922	821086
25°	72509	133152	605606
30°	42499	77990	391659
35°	27283	52338	232060
40°	21318	35293	128936
45°	18420	21071	57352
50°	16656	14506	21030
55°	11354	10580	9720
60°	8387	7499	7499
65°	6654	5487	6654
70°	5481	5481	5481
75°	5337	5337	5337
80°	5398	5398	5398
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 57352 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	22.2
10°-20°	295.2	36.3
20°-30°	196.9	24.2
30°-40°	88.8	10.9
40°-50°	32.5	4.0
50°-60°	11.4	1.4
60°-70°	5.3	0.7
70°-80°	2.8	0.3
80°-90°	0.7	0.1
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°	672.5	82.6
0°-40°	761.3	93.5
0°-60°	805.2	98.9
0°-90°	814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2265	2265	2265	2265	2265	
5°	1855	1912	2046	2196	2270	151
15°	486	571	913	1543	1956	146
25°	133	155	245	667	1112	64
35°	45	51	87	188	385	30
45°	26	26	30	47	82	21
55°	13	12	12	10	11	12
65°	6	6	5	5	6	6
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2264.7	2264.7	2264.7	2264.7	2264.7
2.5°	2150.4	2173.1	2199.5	2226.9	2248.6
5°	1854.8	1912.4	2046.5	2195.7	2270.3
7.5°	1466.7	1551.7	1812.3	2107.0	2264.7
10°	1064.3	1172.9	1495.0	1953.0	2188.2
12.5°	731.9	833.9	1199.4	1758.5	2087.1
15°	486.4	571.4	913.2	1543.2	1955.9
17.5°	342.8	400.4	663.9	1308.0	1786.8
20°	249.3	288.0	468.4	1077.6	1563.9
22.5°	181.3	210.6	333.4	861.3	1338.2
25°	133.2	154.9	244.6	666.7	1112.5
27.5°	99.2	116.2	183.2	506.2	886.8
30°	74.6	88.8	136.9	373.0	687.5
32.5°	57.6	67.1	104.8	266.3	520.4
35°	45.3	51.0	86.9	187.9	385.3
37.5°	37.8	41.6	71.8	131.3	282.4
40°	33.1	35.9	54.8	93.5	200.2
42.5°	29.3	31.2	39.7	67.1	130.3
45°	26.4	26.4	30.2	47.2	82.2
47.5°	24.6	21.7	23.6	33.1	48.2
50°	21.7	17.9	18.9	22.7	27.4
52.5°	17.0	15.1	15.1	15.1	16.1
55°	13.2	12.3	12.3	10.4	11.3
57.5°	10.4	10.4	9.4	8.5	9.4
60°	8.5	8.5	7.6	6.6	7.6
62.5°	6.6	6.6	5.7	5.7	6.6
65°	5.7	5.7	4.7	4.7	5.7
67.5°	4.7	4.7	4.7	3.8	4.7
70°	3.8	3.8	3.8	3.8	3.8
72.5°	2.8	2.8	3.8	2.8	2.8
75°	2.8	2.8	2.8	2.8	2.8
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)