

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: P1178126

Luminaire Tested: LDA2B058027R2050D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178126
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: LDA2B058027R2050D010 2LBD1B
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

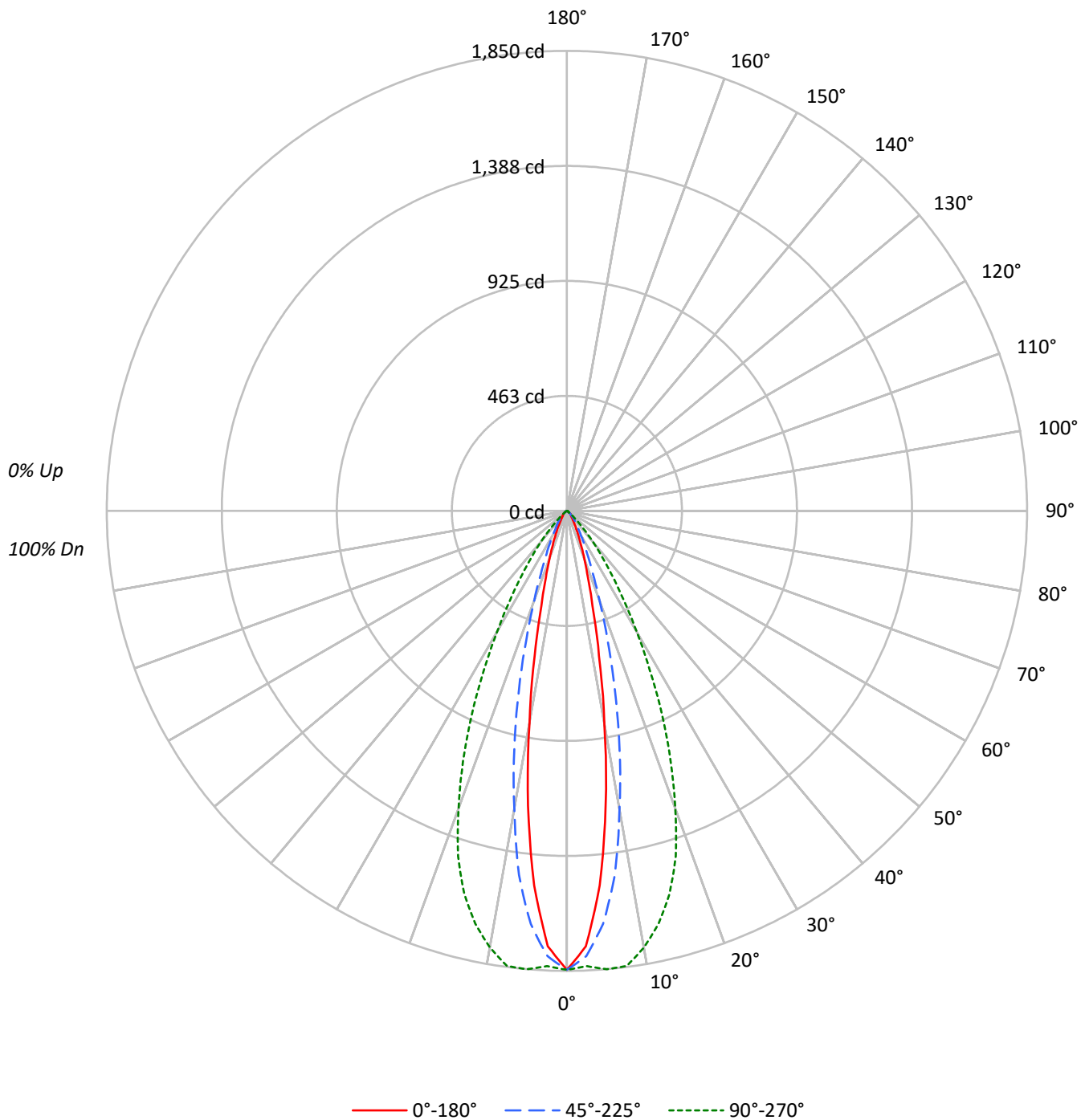
Lumens per Lamp: N/A
Luminaire Lumens: 663.4 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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°	910499	910499	910499
5°	748565	825922	916255
10°	434494	610335	893284
15°	202416	380112	814058
20°	106685	200402	669091
25°	59064	108492	493521
30°	34637	63577	319195
35°	22224	42642	189117
40°	17325	28724	105107
45°	15001	17164	46747
50°	13585	11820	17116
55°	9290	8602	7913
60°	6808	6118	6118
65°	5370	4436	5370
70°	4472	4472	4472
75°	4384	4384	4384
80°	4262	4262	4262
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 46747 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	22.2
10°-20°	240.6	36.3
20°-30°	160.5	24.2
30°-40°	72.3	10.9
40°-50°	26.5	4.0
50°-60°	9.3	1.4
60°-70°	4.3	0.7
70°-80°	2.3	0.3
80°-90°	0.6	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°	548.0	82.6
0°-40°	620.4	93.5
0°-60°	656.1	98.9
0°-90°	663.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	663.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1846	1846	1846	1846	1846	
5°	1512	1558	1668	1789	1850	123
15°	396	466	744	1258	1594	119
25°	108	126	199	543	907	52
35°	37	42	71	153	314	24
45°	22	22	25	38	67	17
55°	11	10	10	8	9	10
65°	5	5	4	4	5	5
75°	2	2	2	2	2	2
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°	1845.5	1845.5	1845.5	1845.5	1845.5
2.5°	1752.4	1770.8	1792.4	1814.7	1832.4
5°	1511.5	1558.4	1667.7	1789.3	1850.1
7.5°	1195.2	1264.4	1476.9	1717.0	1845.5
10°	867.3	955.8	1218.3	1591.5	1783.1
12.5°	596.4	679.6	977.4	1433.0	1700.8
15°	396.3	465.6	744.2	1257.5	1593.8
17.5°	279.4	326.3	541.0	1065.9	1456.1
20°	203.2	234.7	381.7	878.1	1274.4
22.5°	147.8	171.6	271.7	701.9	1090.5
25°	108.5	126.2	199.3	543.3	906.6
27.5°	80.8	94.7	149.3	412.5	722.6
30°	60.8	72.3	111.6	304.0	560.3
32.5°	46.9	54.6	85.4	217.0	424.0
35°	36.9	41.6	70.8	153.1	314.0
37.5°	30.8	33.9	58.5	107.0	230.1
40°	26.9	29.2	44.6	76.2	163.2
42.5°	23.9	25.4	32.3	54.6	106.2
45°	21.5	21.5	24.6	38.5	67.0
47.5°	20.0	17.7	19.2	26.9	39.2
50°	17.7	14.6	15.4	18.5	22.3
52.5°	13.9	12.3	12.3	12.3	13.1
55°	10.8	10.0	10.0	8.5	9.2
57.5°	8.5	8.5	7.7	6.9	7.7
60°	6.9	6.9	6.2	5.4	6.2
62.5°	5.4	5.4	4.6	4.6	5.4
65°	4.6	4.6	3.8	3.8	4.6
67.5°	3.8	3.8	3.8	3.1	3.8
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.3	2.3	3.1	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)