

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: P1178269

Luminaire Tested: LDA2B058050R2040D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B058050R2040D010 2LBD1LI
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

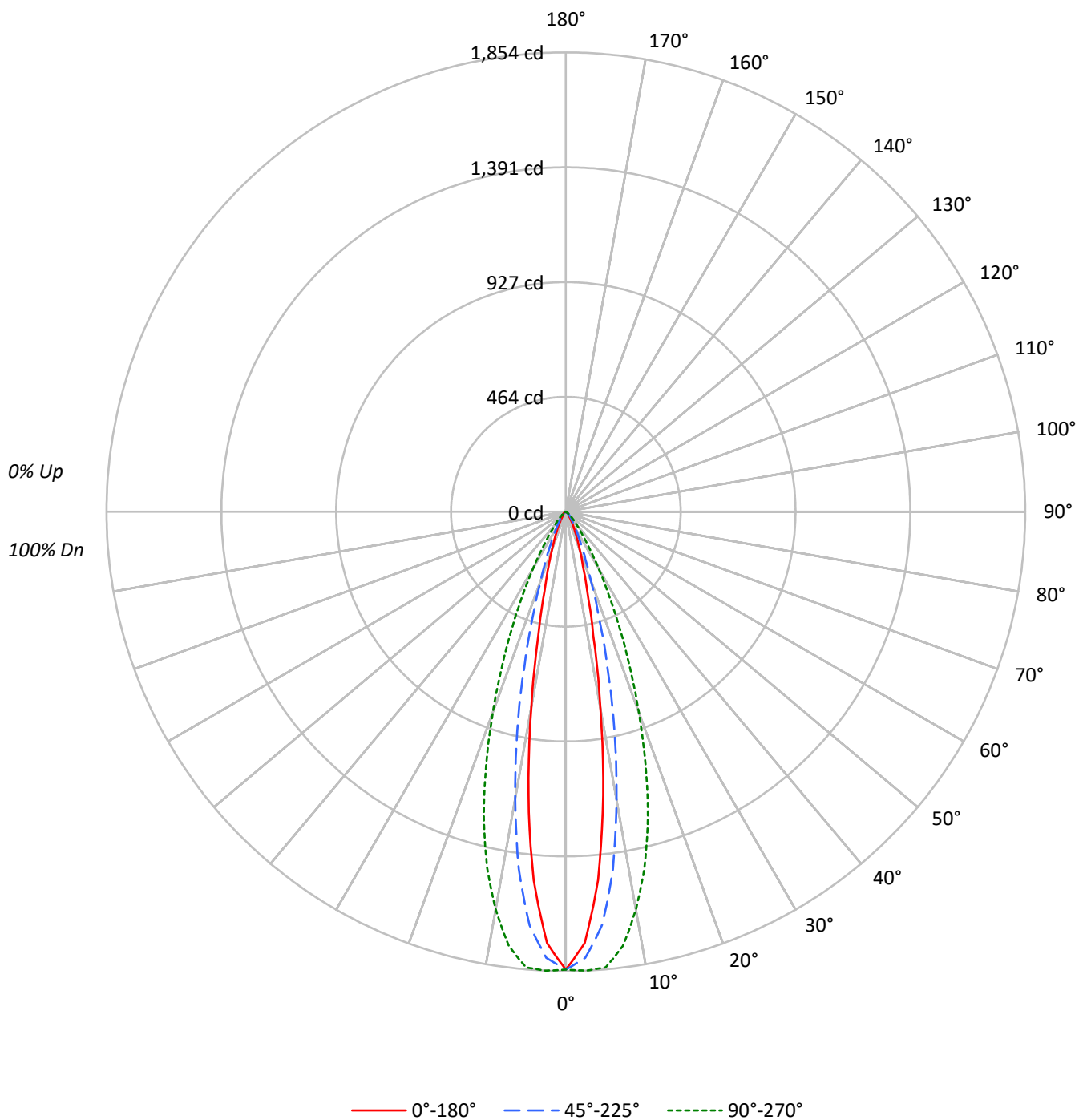
Lumens per Lamp: N/A
Luminaire Lumens: 520.8 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	88	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	911634	911634	911634
5°	738908	829934	913977
10°	401730	589244	816185
15°	169932	330670	653320
20°	86734	155512	451731
25°	48013	79532	275340
30°	26889	44208	150169
35°	15599	26741	76490
40°	11593	20287	42378
45°	10187	13745	25118
50°	10745	9057	13355
55°	7741	6279	7225
60°	5032	4440	4440
65°	3969	3969	3969
70°	3173	3173	3173
75°	3241	3241	3241
80°	3125	3125	3125
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 25118 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	27.6
10°-20°	203.6	39.1
20°-30°	104.9	20.1
30°-40°	38.6	7.4
40°-50°	17.0	3.3
50°-60°	7.4	1.4
60°-70°	3.2	0.6
70°-80°	1.6	0.3
80°-90°	0.5	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°	452.5	86.9
0°-40°	491.0	94.3
0°-60°	515.4	99.0
0°-90°	520.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1492	1543	1676	1794	1846	120
15°	333	387	647	1080	1279	102
25°	88	99	146	336	506	42
35°	26	30	44	78	127	18
45°	15	17	20	24	36	12
55°	9	8	7	8	8	8
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1847.8	1847.8	1847.8	1847.8	1847.8
2.5°	1742.1	1762.9	1801.7	1838.8	1854.0
5°	1492.0	1542.6	1675.8	1794.4	1845.5
7.5°	1155.4	1238.6	1454.4	1676.4	1767.4
10°	801.9	886.2	1176.2	1495.4	1629.2
12.5°	511.4	593.4	906.5	1294.8	1468.4
15°	332.7	386.6	647.4	1080.1	1279.1
17.5°	231.0	269.2	440.6	852.5	1069.4
20°	165.2	192.2	296.2	650.2	860.4
22.5°	119.7	138.2	205.7	474.9	668.8
25°	88.2	98.9	146.1	335.5	505.8
27.5°	65.2	71.9	105.7	231.5	369.8
30°	47.2	52.8	77.6	159.0	263.6
32.5°	34.3	39.3	57.9	110.1	183.8
35°	25.9	29.8	44.4	77.6	127.0
37.5°	21.4	23.6	36.5	56.2	89.9
40°	18.0	20.2	31.5	41.6	65.8
42.5°	15.7	18.5	25.9	30.9	49.5
45°	14.6	16.9	19.7	23.6	36.0
47.5°	14.6	14.0	15.2	18.0	25.3
50°	14.0	11.8	11.8	14.0	17.4
52.5°	11.8	9.6	9.6	10.1	11.8
55°	9.0	7.9	7.3	7.9	8.4
57.5°	6.7	6.7	6.2	5.6	6.2
60°	5.1	5.1	4.5	4.5	4.5
62.5°	3.9	3.9	3.9	3.4	3.9
65°	3.4	3.4	3.4	2.8	3.4
67.5°	2.8	2.8	2.2	2.8	2.8
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)