

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: P1178500

Luminaire Tested: LDA2B059050R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178500
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: LDA2B059050R2040D010 2LBD1B
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

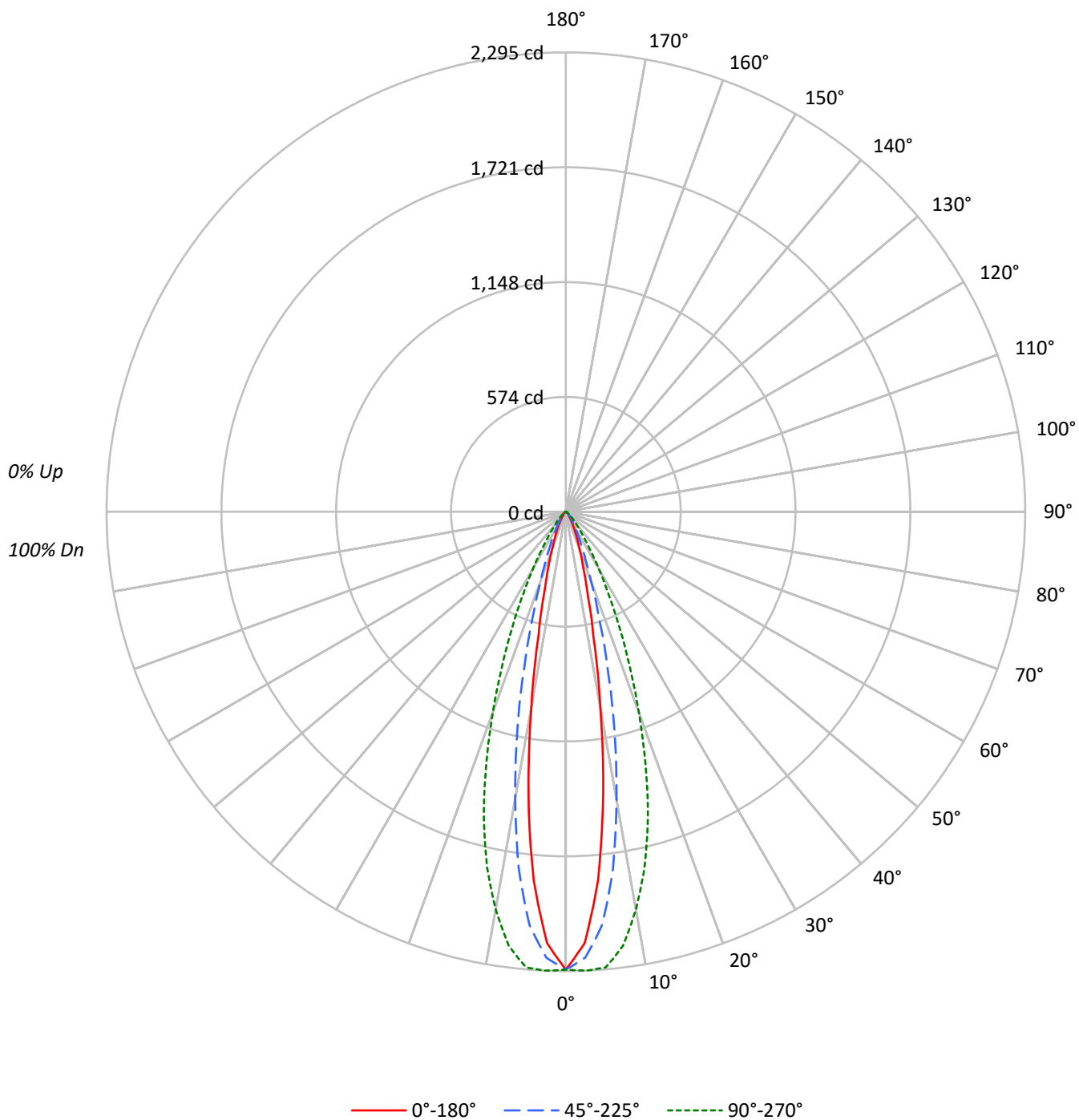
Lumens per Lamp: N/A
Luminaire Lumens: 644.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	87	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°	1128417	1128417	1128417
5°	914670	1027290	1131341
10°	497316	729366	1010262
15°	210333	409328	808644
20°	107368	192474	559151
25°	59445	98476	340827
30°	33270	54690	185831
35°	19273	33126	94679
40°	14362	25117	52425
45°	12629	16955	31048
50°	13355	11206	16579
55°	9548	7741	8946
60°	6216	5526	5526
65°	4903	4903	4903
70°	4039	4039	4039
75°	4003	4003	4003
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 31048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	27.6
10°-20°	252.0	39.1
20°-30°	129.8	20.1
30°-40°	47.8	7.4
40°-50°	21.0	3.3
50°-60°	9.2	1.4
60°-70°	4.1	0.6
70°-80°	2.0	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°	560.1	86.9
0°-40°	607.8	94.3
0°-60°	638.0	99.0
0°-90°	644.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2287	2287	2287	2287	2287	
5°	1847	1910	2074	2221	2284	149
15°	412	479	801	1337	1583	126
25°	109	122	181	415	626	52
35°	32	37	55	96	157	22
45°	18	21	24	29	44	15
55°	11	10	9	10	10	10
65°	4	4	4	4	4	4
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°	2287.2	2287.2	2287.2	2287.2	2287.2
2.5°	2156.4	2182.2	2230.2	2276.1	2294.9
5°	1846.9	1909.5	2074.3	2221.1	2284.4
7.5°	1430.2	1533.2	1800.3	2075.0	2187.7
10°	992.7	1097.0	1455.9	1851.1	2016.6
12.5°	633.0	734.6	1122.0	1602.7	1817.7
15°	411.8	478.6	801.4	1337.0	1583.2
17.5°	285.9	333.2	545.4	1055.3	1323.8
20°	204.5	237.9	366.6	804.8	1065.0
22.5°	148.2	171.1	254.6	587.8	827.8
25°	109.2	122.4	180.9	415.3	626.1
27.5°	80.7	89.0	130.8	286.6	457.7
30°	58.4	65.4	96.0	196.9	326.2
32.5°	42.4	48.7	71.6	136.3	227.5
35°	32.0	36.9	55.0	96.0	157.2
37.5°	26.4	29.2	45.2	69.6	111.3
40°	22.3	25.0	39.0	51.5	81.4
42.5°	19.5	23.0	32.0	38.3	61.2
45°	18.1	20.9	24.3	29.2	44.5
47.5°	18.1	17.4	18.8	22.3	31.3
50°	17.4	14.6	14.6	17.4	21.6
52.5°	14.6	11.8	11.8	12.5	14.6
55°	11.1	9.7	9.0	9.7	10.4
57.5°	8.3	8.3	7.7	7.0	7.7
60°	6.3	6.3	5.6	5.6	5.6
62.5°	4.9	4.9	4.9	4.2	4.9
65°	4.2	4.2	4.2	3.5	4.2
67.5°	3.5	3.5	2.8	3.5	3.5
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.1	2.1	2.1	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)