

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: P1178461

Luminaire Tested: LDA2B059040R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178461
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: LDA2B059040R2040D010 2LBD1B
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

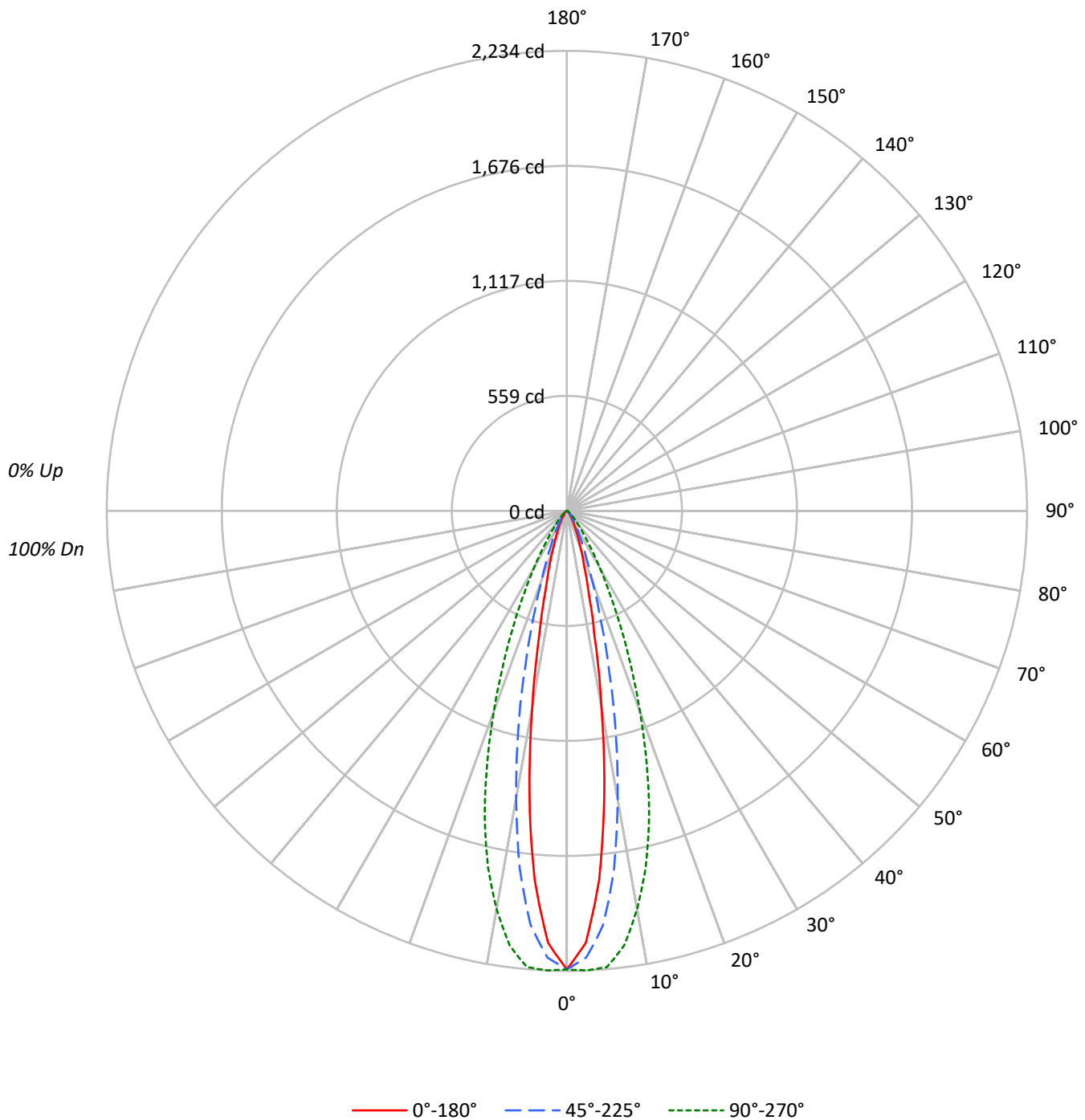
Lumens per Lamp: N/A
Luminaire Lumens: 627.5 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	99	99
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	94	93
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	90	89
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87	86	85
4	102	95	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	83	82	81
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79	78	77
6	94	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76	75	74
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73	72	71
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70	69	68
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	67	66
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1098371	1098371	1098371
5°	890304	999952	1101230
10°	484040	709978	983359
15°	204715	398397	787141
20°	104532	187329	544241
25°	57866	95808	331736
30°	32415	53209	180932
35°	18731	32222	92149
40°	13976	24409	51008
45°	12280	16536	30211
50°	12971	10899	16118
55°	9290	7569	8774
60°	6019	5328	5328
65°	4786	4786	4786
70°	3895	3895	3895
75°	3812	3812	3812
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 30211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	27.6
10°-20°	245.3	39.1
20°-30°	126.4	20.1
30°-40°	46.5	7.4
40°-50°	20.4	3.3
50°-60°	9.0	1.4
60°-70°	3.9	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°	545.1	86.9
0°-40°	591.6	94.3
0°-60°	621.0	99.0
0°-90°	627.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	1798	1859	2019	2162	2224	145
15°	401	466	780	1301	1541	123
25°	106	119	176	404	609	51
35°	31	36	54	93	153	21
45°	18	20	24	28	43	14
55°	11	10	9	10	10	10
65°	4	4	4	3	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°	2226.3	2226.3	2226.3	2226.3	2226.3
2.5°	2099.0	2124.1	2170.8	2215.5	2233.7
5°	1797.7	1858.6	2019.1	2162.0	2223.6
7.5°	1392.1	1492.3	1752.3	2019.8	2129.5
10°	966.2	1067.8	1417.2	1801.8	1962.9
12.5°	616.2	715.0	1092.2	1560.0	1769.3
15°	400.8	465.8	780.0	1301.4	1541.1
17.5°	278.3	324.3	530.8	1027.2	1288.5
20°	199.1	231.6	356.8	783.4	1036.6
22.5°	144.2	166.6	247.8	572.1	805.7
25°	106.3	119.2	176.0	404.2	609.4
27.5°	78.5	86.7	127.3	279.0	445.5
30°	56.9	63.6	93.4	191.6	317.6
32.5°	41.3	47.4	69.7	132.7	221.4
35°	31.1	35.9	53.5	93.4	153.0
37.5°	25.7	28.4	44.0	67.7	108.3
40°	21.7	24.4	37.9	50.1	79.2
42.5°	19.0	22.3	31.1	37.2	59.6
45°	17.6	20.3	23.7	28.4	43.3
47.5°	17.6	16.9	18.3	21.7	30.5
50°	16.9	14.2	14.2	16.9	21.0
52.5°	14.2	11.5	11.5	12.2	14.2
55°	10.8	9.5	8.8	9.5	10.2
57.5°	8.1	8.1	7.4	6.8	7.4
60°	6.1	6.1	5.4	5.4	5.4
62.5°	4.7	4.7	4.7	4.1	4.7
65°	4.1	4.1	4.1	3.4	4.1
67.5°	3.4	3.4	2.7	3.4	3.4
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0
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)