

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: P1179313

Luminaire Tested: LDA2B159024R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179313
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: LDA2B159024R2040D010 2LBD1B
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

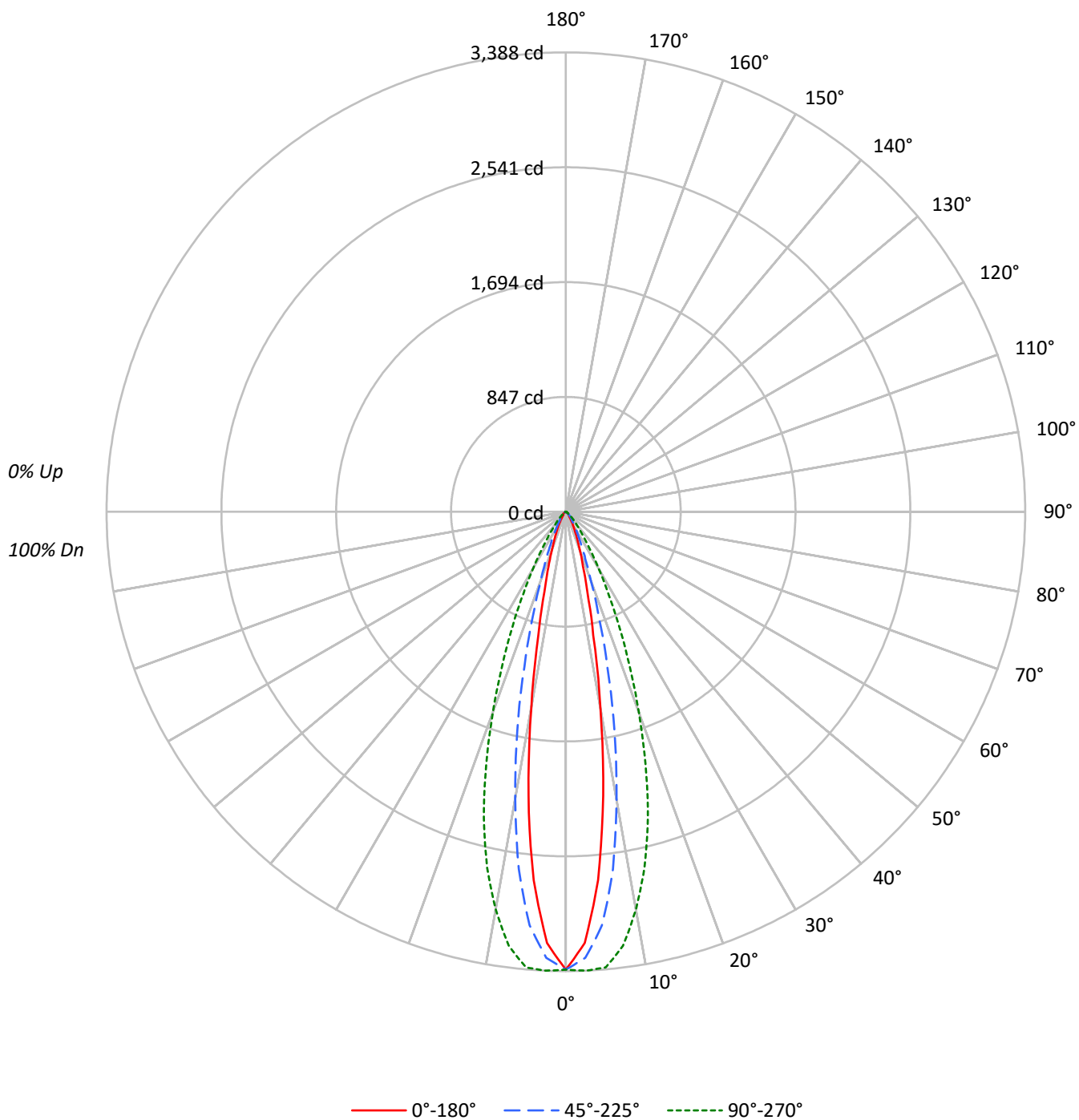
Lumens per Lamp: N/A
Luminaire Lumens: 951.7 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1665885	1665885	1665885
5°	1350339	1516642	1670218
10°	734175	1076791	1491446
15°	310546	604287	1193813
20°	158505	284143	825496
25°	87752	145345	503156
30°	49164	80724	274360
35°	28428	48845	139790
40°	21189	37032	77413
45°	18629	25048	45840
50°	19726	16579	24408
55°	14106	11526	13246
60°	9078	8091	8091
65°	7238	7238	7238
70°	5914	5914	5914
75°	5909	5909	5909
80°	5966	5966	5966
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 45840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	27.6
10°-20°	372.0	39.1
20°-30°	191.7	20.1
30°-40°	70.5	7.4
40°-50°	31.0	3.3
50°-60°	13.6	1.4
60°-70°	5.9	0.6
70°-80°	3.0	0.3
80°-90°	0.8	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°	826.8	86.9
0°-40°	897.3	94.3
0°-60°	941.9	99.0
0°-90°	951.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3377	3377	3377	3377	3377	
5°	2727	2819	3062	3279	3372	219
15°	608	706	1183	1974	2337	186
25°	161	181	267	613	924	77
35°	47	54	81	142	232	32
45°	27	31	36	43	66	22
55°	16	14	13	14	15	15
65°	6	6	6	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°	3376.6	3376.6	3376.6	3376.6	3376.6
2.5°	3183.6	3221.6	3292.4	3360.2	3387.9
5°	2726.6	2819.0	3062.4	3279.1	3372.5
7.5°	2111.4	2263.4	2657.8	3063.4	3229.8
10°	1465.5	1619.5	2149.4	2732.7	2977.1
12.5°	934.5	1084.5	1656.5	2366.1	2683.4
15°	608.0	706.5	1183.1	1973.8	2337.3
17.5°	422.1	491.9	805.1	1557.9	1954.3
20°	301.9	351.2	541.2	1188.2	1572.3
22.5°	218.7	252.6	375.9	867.8	1222.1
25°	161.2	180.7	267.0	613.1	924.3
27.5°	119.1	131.5	193.1	423.1	675.7
30°	86.3	96.5	141.7	290.6	481.6
32.5°	62.6	71.9	105.8	201.3	335.8
35°	47.2	54.4	81.1	141.7	232.1
37.5°	39.0	43.1	66.8	102.7	164.3
40°	32.9	37.0	57.5	76.0	120.2
42.5°	28.8	33.9	47.2	56.5	90.4
45°	26.7	30.8	35.9	43.1	65.7
47.5°	26.7	25.7	27.7	32.9	46.2
50°	25.7	21.6	21.6	25.7	31.8
52.5°	21.6	17.5	17.5	18.5	21.6
55°	16.4	14.4	13.4	14.4	15.4
57.5°	12.3	12.3	11.3	10.3	11.3
60°	9.2	9.2	8.2	8.2	8.2
62.5°	7.2	7.2	7.2	6.2	7.2
65°	6.2	6.2	6.2	5.1	6.2
67.5°	5.1	5.1	4.1	5.1	5.1
70°	4.1	4.1	4.1	4.1	4.1
72.5°	3.1	3.1	3.1	3.1	3.1
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)