

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: P1179557

Luminaire Tested: LDA2B159727R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179557
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: LDA2B159727R2040D010 2LBDC1MB
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

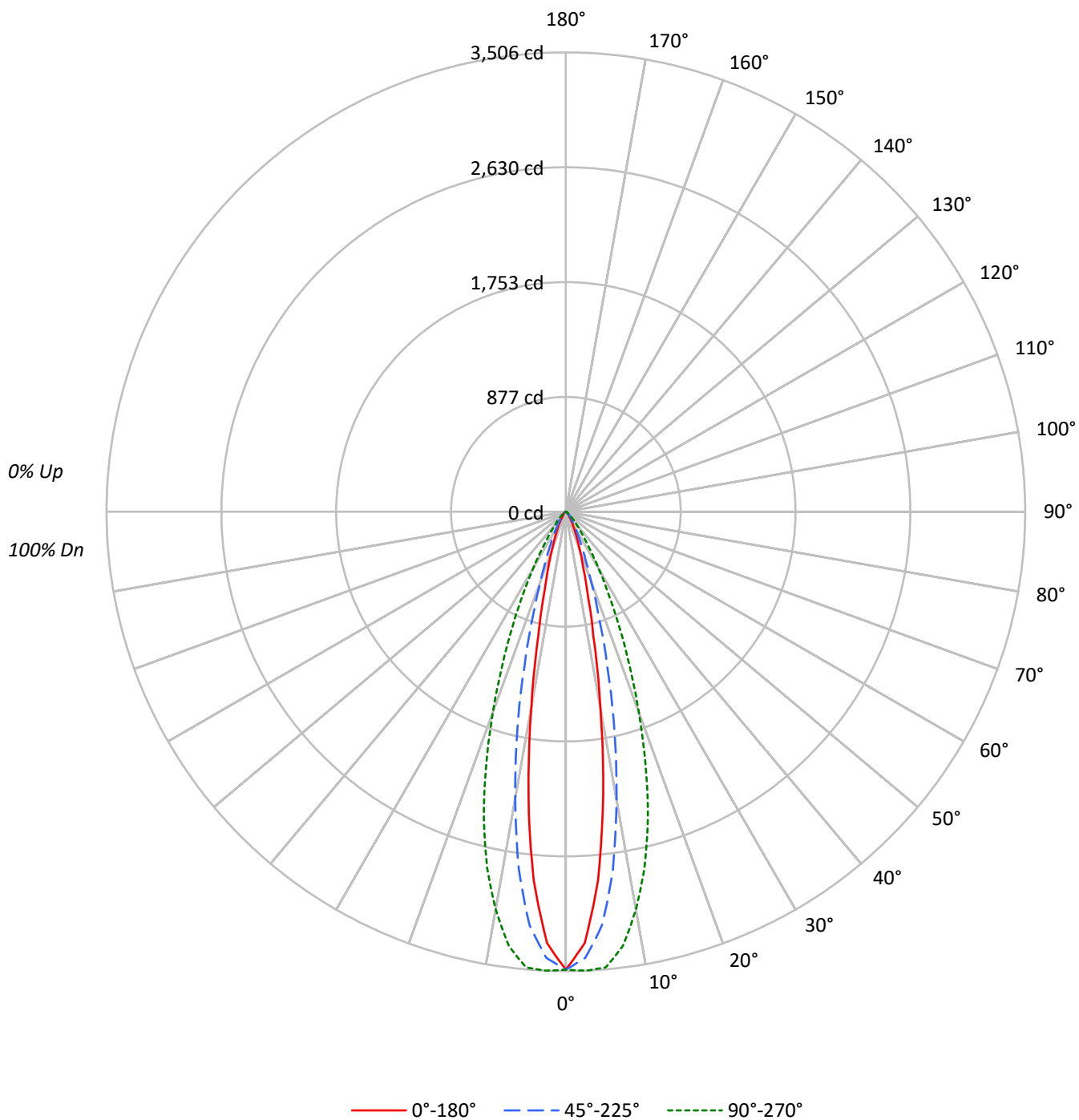
Lumens per Lamp: N/A
Luminaire Lumens: 984.8 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1723905	1723905	1723905
5°	1397338	1569436	1728410
10°	759725	1114314	1543397
15°	321323	625330	1235389
20°	164018	294066	854215
25°	90800	150408	520630
30°	50873	83573	283931
35°	29452	50592	144669
40°	21897	38320	80054
45°	19257	25955	47445
50°	20416	17116	25252
55°	14623	11870	13676
60°	9473	8387	8387
65°	7471	7471	7471
70°	6203	6203	6203
75°	6100	6100	6100
80°	5966	5966	5966
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 47445 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	27.6
10°-20°	385.0	39.1
20°-30°	198.3	20.1
30°-40°	73.0	7.4
40°-50°	32.1	3.3
50°-60°	14.1	1.4
60°-70°	6.2	0.6
70°-80°	3.1	0.3
80°-90°	0.9	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°	855.6	86.9
0°-40°	928.6	94.3
0°-60°	974.7	99.0
0°-90°	984.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3494	3494	3494	3494	3494	
5°	2822	2917	3169	3393	3490	227
15°	629	731	1224	2042	2419	192
25°	167	187	276	634	956	80
35°	49	56	84	147	240	33
45°	28	32	37	45	68	22
55°	17	15	14	15	16	16
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°	3494.2	3494.2	3494.2	3494.2	3494.2
2.5°	3294.4	3333.7	3407.1	3477.2	3505.9
5°	2821.5	2917.2	3169.0	3393.3	3490.0
7.5°	2184.9	2342.2	2750.3	3170.1	3342.2
10°	1516.5	1675.9	2224.3	2827.9	3080.8
12.5°	967.1	1122.2	1714.2	2448.5	2776.9
15°	629.1	731.2	1224.3	2042.5	2418.7
17.5°	436.8	509.0	833.2	1612.1	2022.4
20°	312.4	363.4	560.1	1229.6	1627.0
22.5°	226.4	261.4	389.0	898.0	1264.6
25°	166.8	187.0	276.3	634.4	956.4
27.5°	123.3	136.0	199.8	437.8	699.3
30°	89.3	99.9	146.7	300.7	498.4
32.5°	64.8	74.4	109.5	208.3	347.5
35°	48.9	56.3	84.0	146.7	240.2
37.5°	40.4	44.6	69.1	106.3	170.0
40°	34.0	38.3	59.5	78.6	124.3
42.5°	29.8	35.1	48.9	58.4	93.5
45°	27.6	31.9	37.2	44.6	68.0
47.5°	27.6	26.6	28.7	34.0	47.8
50°	26.6	22.3	22.3	26.6	32.9
52.5°	22.3	18.1	18.1	19.1	22.3
55°	17.0	14.9	13.8	14.9	15.9
57.5°	12.8	12.8	11.7	10.6	11.7
60°	9.6	9.6	8.5	8.5	8.5
62.5°	7.4	7.4	7.4	6.4	7.4
65°	6.4	6.4	6.4	5.3	6.4
67.5°	5.3	5.3	4.3	5.3	5.3
70°	4.3	4.3	4.3	4.3	4.3
72.5°	3.2	3.2	3.2	3.2	3.2
75°	3.2	3.2	3.2	3.2	3.2
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°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
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)