

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: P1179247

Luminaire Tested: LDA2B158040R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179247
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: LDA2B158040R2040D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

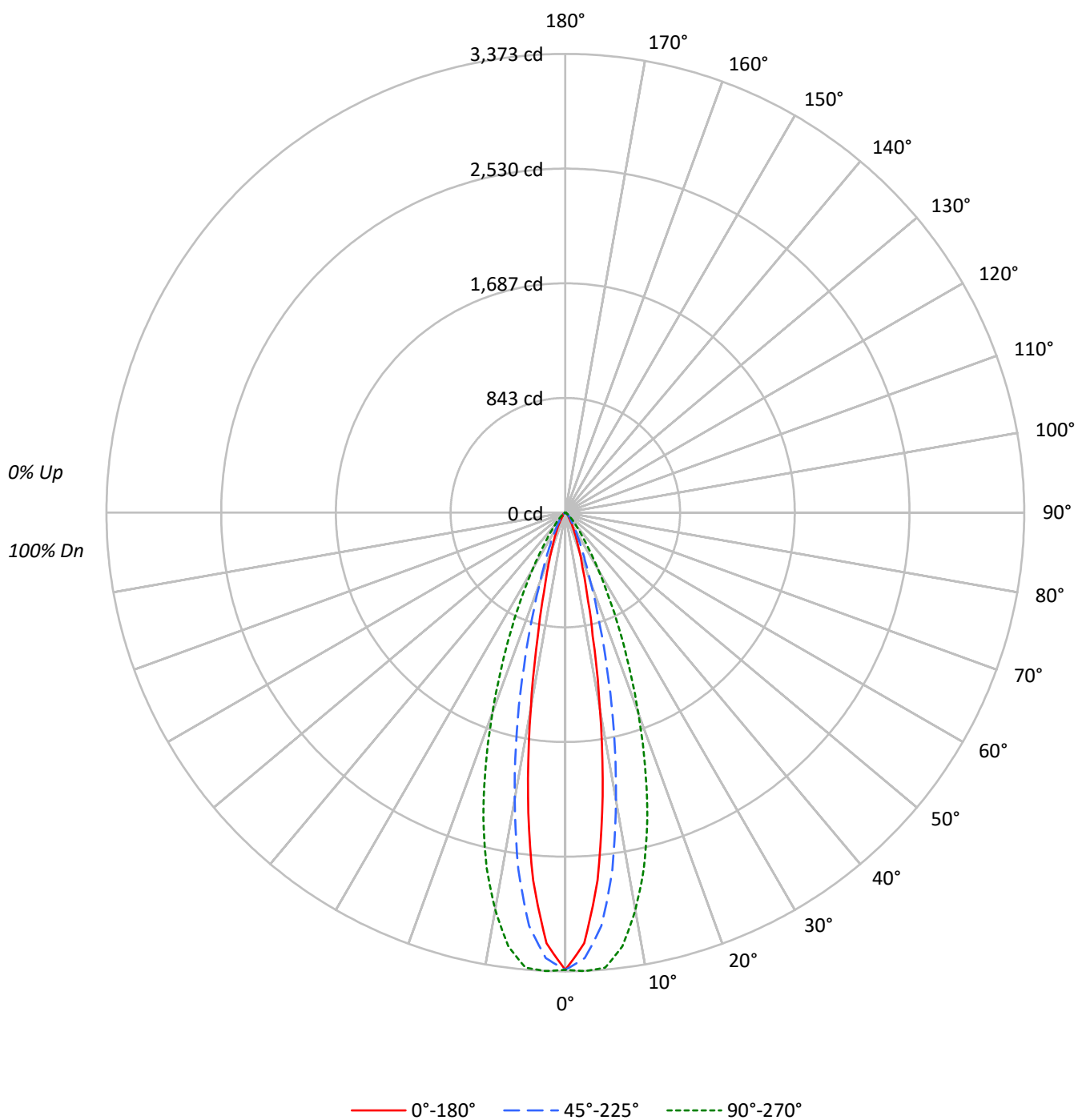
Lumens per Lamp: N/A
Luminaire Lumens: 947.6 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	88	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	79	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	74	76	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	71	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	67	69	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1658732	1658732	1658732
5°	1344544	1510105	1663037
10°	731019	1072182	1485083
15°	309166	601682	1188705
20°	157822	282936	821926
25°	87371	144747	500979
30°	48936	80383	273221
35°	28307	48665	139188
40°	21060	36903	77027
45°	18559	24978	45631
50°	19649	16502	24331
55°	14106	11440	13160
60°	9078	8091	8091
65°	7121	7121	7121
70°	5914	5914	5914
75°	5909	5909	5909
80°	5682	5682	5682
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 45631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	27.6
10°-20°	370.4	39.1
20°-30°	190.8	20.1
30°-40°	70.2	7.4
40°-50°	30.8	3.3
50°-60°	13.5	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°	823.3	86.9
0°-40°	893.5	94.3
0°-60°	937.9	99.0
0°-90°	947.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3362	3362	3362	3362	3362	
5°	2715	2807	3049	3265	3358	218
15°	605	704	1178	1965	2327	185
25°	160	180	266	610	920	77
35°	47	54	81	141	231	32
45°	27	31	36	43	65	21
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°	3362.1	3362.1	3362.1	3362.1	3362.1
2.5°	3169.9	3207.7	3278.3	3345.8	3373.4
5°	2714.9	2806.9	3049.2	3265.0	3358.0
7.5°	2102.4	2253.7	2646.4	3050.3	3215.9
10°	1459.2	1612.6	2140.2	2721.0	2964.4
12.5°	930.5	1079.8	1649.4	2355.9	2671.9
15°	605.3	703.5	1178.0	1965.3	2327.3
17.5°	420.3	489.8	801.7	1551.2	1945.9
20°	300.6	349.7	538.9	1183.1	1565.5
22.5°	217.8	251.5	374.3	864.1	1216.8
25°	160.5	180.0	265.9	610.5	920.3
27.5°	118.6	130.9	192.2	421.3	672.8
30°	85.9	96.1	141.1	289.4	479.6
32.5°	62.4	71.6	105.3	200.4	334.4
35°	47.0	54.2	80.8	141.1	231.1
37.5°	38.9	42.9	66.5	102.3	163.6
40°	32.7	36.8	57.3	75.7	119.6
42.5°	28.6	33.7	47.0	56.2	90.0
45°	26.6	30.7	35.8	42.9	65.4
47.5°	26.6	25.6	27.6	32.7	46.0
50°	25.6	21.5	21.5	25.6	31.7
52.5°	21.5	17.4	17.4	18.4	21.5
55°	16.4	14.3	13.3	14.3	15.3
57.5°	12.3	12.3	11.2	10.2	11.2
60°	9.2	9.2	8.2	8.2	8.2
62.5°	7.2	7.2	7.2	6.1	7.2
65°	6.1	6.1	6.1	5.1	6.1
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°	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0
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)