

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: P1178239

Luminaire Tested: LDA2B058040R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178239
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: LDA2B058040R2040D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

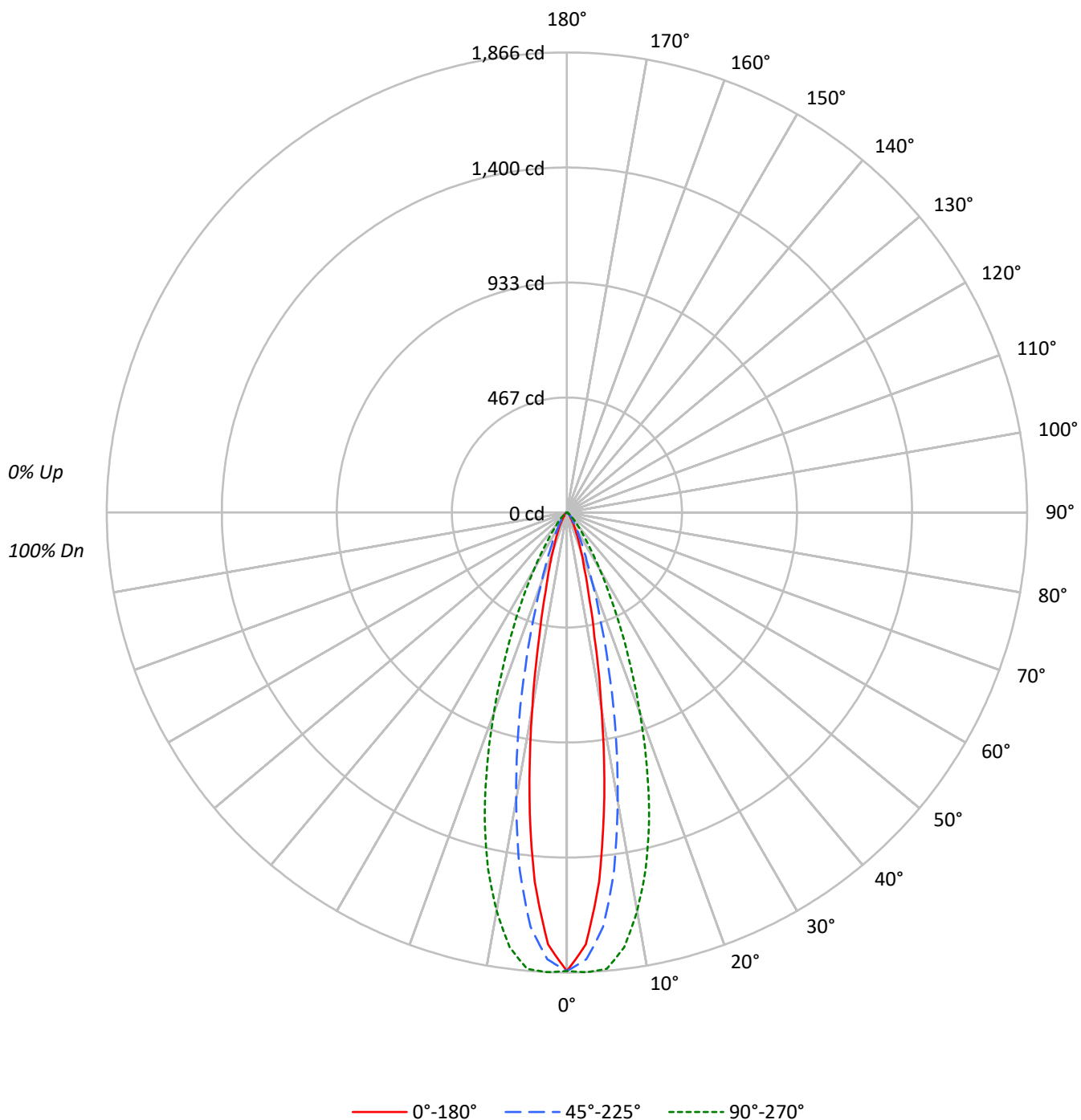
Lumens per Lamp: N/A
Luminaire Lumens: 524.2 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	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°	917604	917604	917604
5°	743761	835382	919970
10°	404385	593102	821545
15°	171055	332815	657611
20°	87312	156510	454671
25°	48340	80076	277136
30°	27060	44492	151137
35°	15659	26922	76972
40°	11657	20416	42635
45°	10256	13815	25257
50°	10822	9134	13432
55°	7827	6365	7311
60°	5032	4440	4440
65°	3969	3969	3969
70°	3318	3318	3318
75°	3241	3241	3241
80°	3125	3125	3125
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 25257 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	27.6
10°-20°	204.9	39.1
20°-30°	105.6	20.1
30°-40°	38.9	7.4
40°-50°	17.1	3.3
50°-60°	7.5	1.4
60°-70°	3.3	0.6
70°-80°	1.6	0.3
80°-90°	0.5	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°	455.4	86.9
0°-40°	494.3	94.3
0°-60°	518.8	99.0
0°-90°	524.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	524.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1502	1553	1687	1806	1858	121
15°	335	389	652	1087	1288	102
25°	89	100	147	338	509	43
35°	26	30	45	78	128	18
45°	15	17	20	24	36	12
55°	9	8	7	8	8	8
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1859.9	1859.9	1859.9	1859.9	1859.9
2.5°	1753.6	1774.5	1813.5	1850.9	1866.1
5°	1501.8	1552.7	1686.8	1806.2	1857.6
7.5°	1163.0	1246.7	1463.9	1687.4	1779.0
10°	807.2	892.1	1183.9	1505.2	1639.9
12.5°	514.8	597.3	912.4	1303.3	1478.1
15°	334.9	389.2	651.6	1087.2	1287.5
17.5°	232.5	271.0	443.5	858.1	1076.5
20°	166.3	193.5	298.1	654.5	866.0
22.5°	120.5	139.2	207.0	478.0	673.1
25°	88.8	99.6	147.1	337.7	509.1
27.5°	65.6	72.4	106.3	233.1	372.2
30°	47.5	53.2	78.1	160.1	265.3
32.5°	34.5	39.6	58.3	110.9	185.0
35°	26.0	30.0	44.7	78.1	127.8
37.5°	21.5	23.8	36.8	56.6	90.5
40°	18.1	20.4	31.7	41.9	66.2
42.5°	15.8	18.7	26.0	31.1	49.8
45°	14.7	17.0	19.8	23.8	36.2
47.5°	14.7	14.1	15.3	18.1	25.5
50°	14.1	11.9	11.9	14.1	17.5
52.5°	11.9	9.6	9.6	10.2	11.9
55°	9.1	7.9	7.4	7.9	8.5
57.5°	6.8	6.8	6.2	5.7	6.2
60°	5.1	5.1	4.5	4.5	4.5
62.5°	4.0	4.0	4.0	3.4	4.0
65°	3.4	3.4	3.4	2.8	3.4
67.5°	2.8	2.8	2.3	2.8	2.8
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)