

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: P1178202

Luminaire Tested: LDA2B058035R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178202
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: LDA2B058035R2040D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

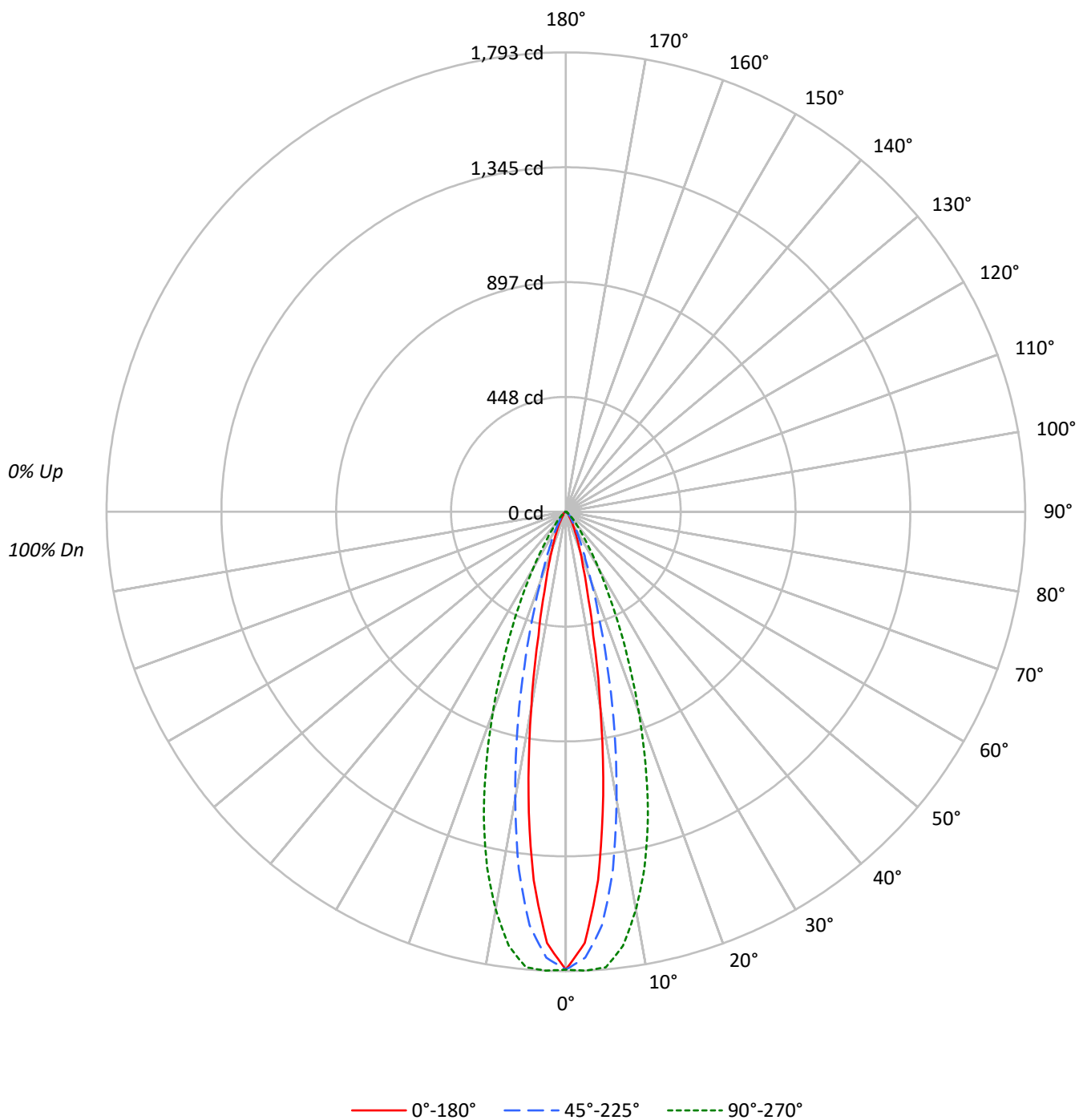
Lumens per Lamp: N/A
Luminaire Lumens: 503.6 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	881539	881539	881539
5°	714541	802547	883817
10°	388504	569806	789232
15°	164313	319739	631766
20°	83899	150367	436821
25°	46434	76919	266249
30°	25978	42726	145213
35°	15057	25838	73960
40°	11206	19579	40961
45°	9838	13257	24281
50°	10438	8750	12895
55°	7483	6107	7053
60°	4835	4243	4243
65°	3852	3852	3852
70°	3173	3173	3173
75°	3050	3050	3050
80°	3125	3125	3125
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 24281 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	27.6
10°-20°	196.9	39.1
20°-30°	101.4	20.1
30°-40°	37.3	7.4
40°-50°	16.4	3.3
50°-60°	7.2	1.4
60°-70°	3.2	0.6
70°-80°	1.6	0.3
80°-90°	0.4	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°	437.5	86.9
0°-40°	474.8	94.3
0°-60°	498.4	99.0
0°-90°	503.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1443	1492	1620	1735	1785	116
15°	322	374	626	1044	1237	98
25°	85	96	141	324	489	41
35°	25	29	43	75	123	17
45°	14	16	19	23	35	11
55°	9	8	7	8	8	8
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.8	1786.8	1786.8	1786.8	1786.8
2.5°	1684.7	1704.8	1742.3	1778.1	1792.8
5°	1442.8	1491.7	1620.5	1735.2	1784.6
7.5°	1117.3	1197.7	1406.4	1621.1	1709.1
10°	775.5	857.0	1137.4	1446.1	1575.4
12.5°	494.5	573.9	876.6	1252.1	1420.0
15°	321.7	373.9	626.0	1044.5	1236.9
17.5°	223.4	260.3	426.1	824.4	1034.2
20°	159.8	185.9	286.4	628.8	832.0
22.5°	115.8	133.7	198.9	459.2	646.7
25°	85.3	95.6	141.3	324.4	489.1
27.5°	63.0	69.6	102.2	223.9	357.6
30°	45.6	51.1	75.0	153.8	254.9
32.5°	33.1	38.0	56.0	106.5	177.7
35°	25.0	28.8	42.9	75.0	122.8
37.5°	20.7	22.8	35.3	54.3	86.9
40°	17.4	19.6	30.4	40.2	63.6
42.5°	15.2	17.9	25.0	29.9	47.8
45°	14.1	16.3	19.0	22.8	34.8
47.5°	14.1	13.6	14.7	17.4	24.5
50°	13.6	11.4	11.4	13.6	16.8
52.5°	11.4	9.2	9.2	9.8	11.4
55°	8.7	7.6	7.1	7.6	8.2
57.5°	6.5	6.5	6.0	5.4	6.0
60°	4.9	4.9	4.3	4.3	4.3
62.5°	3.8	3.8	3.8	3.3	3.8
65°	3.3	3.3	3.3	2.7	3.3
67.5°	2.7	2.7	2.2	2.7	2.7
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6
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°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
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)