

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: P1178434

Luminaire Tested: LDA2B059035R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178434
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: LDA2B059035R2040D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

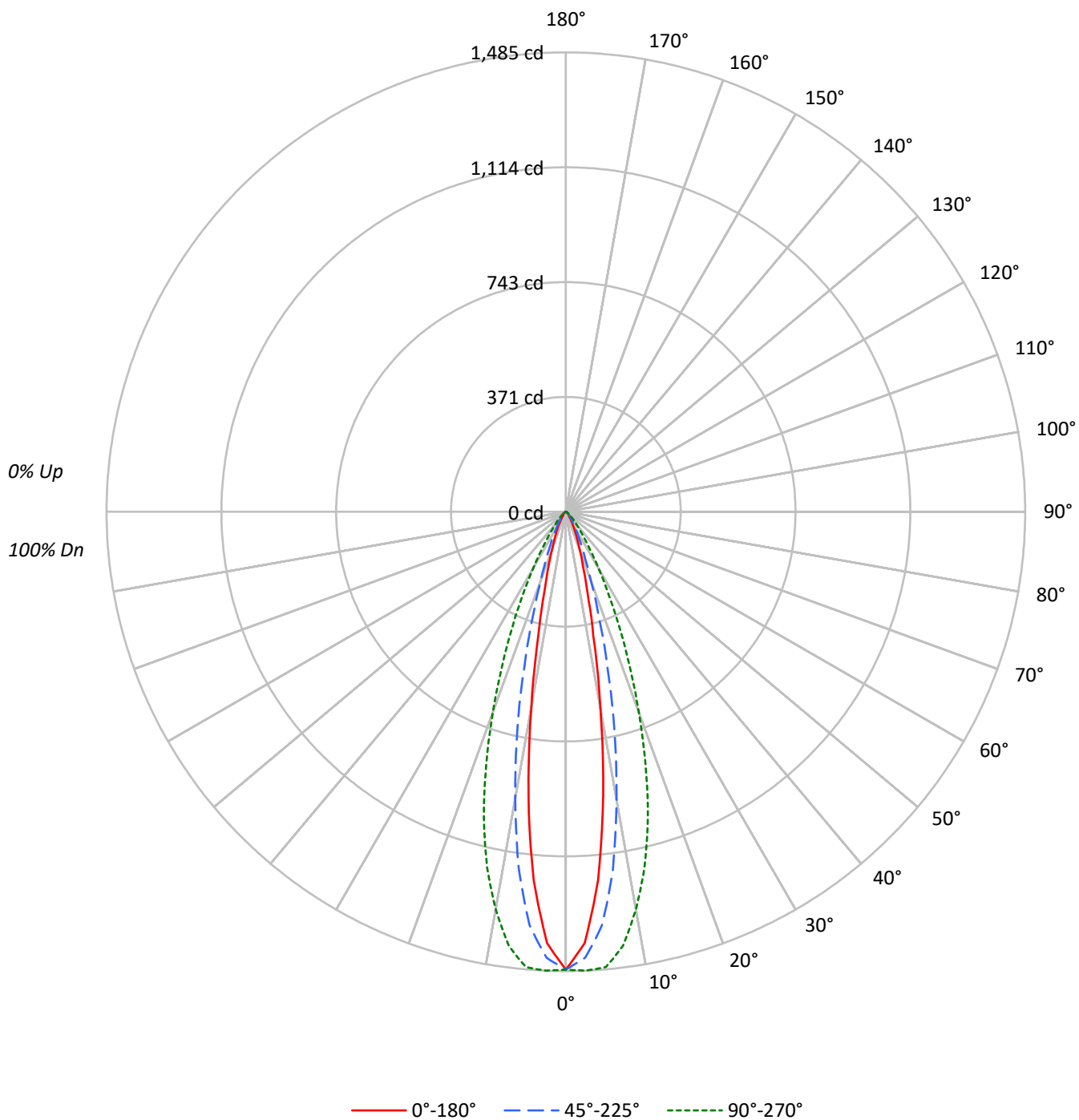
Lumens per Lamp: N/A
Luminaire Lumens: 417.2 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	730126	730126	730126
5°	591819	664670	731974
10°	321775	471916	653669
15°	136068	264832	523228
20°	69461	124536	361794
25°	38487	63691	220522
30°	21534	35377	120261
35°	12467	21441	61252
40°	9274	16230	33941
45°	8163	11024	20094
50°	8673	7292	10745
55°	6193	5075	5849
60°	4046	3552	3552
65°	3152	3152	3152
70°	2596	2596	2596
75°	2669	2669	2669
80°	2557	2557	2557
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20094 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	27.6
10°-20°	163.1	39.1
20°-30°	84.0	20.1
30°-40°	30.9	7.4
40°-50°	13.6	3.3
50°-60°	6.0	1.4
60°-70°	2.6	0.6
70°-80°	1.3	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°	362.4	86.9
0°-40°	393.3	94.3
0°-60°	412.9	99.0
0°-90°	417.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1195	1236	1342	1437	1478	96
15°	266	310	518	865	1024	81
25°	71	79	117	269	405	34
35°	21	24	36	62	102	14
45°	12	14	16	19	29	9
55°	7	6	6	6	7	7
65°	3	3	3	2	3	3
75°	1	1	1	1	1	1
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°	1479.9	1479.9	1479.9	1479.9	1479.9
2.5°	1395.2	1411.9	1442.9	1472.6	1484.8
5°	1195.0	1235.5	1342.1	1437.1	1478.0
7.5°	925.4	992.0	1164.8	1342.6	1415.5
10°	642.3	709.8	942.0	1197.7	1304.8
12.5°	409.6	475.3	726.0	1037.0	1176.0
15°	266.4	309.7	518.5	865.0	1024.4
17.5°	185.0	215.6	352.9	682.8	856.5
20°	132.3	153.9	237.2	520.7	689.1
22.5°	95.9	110.7	164.7	380.3	535.6
25°	70.7	79.2	117.0	268.7	405.1
27.5°	52.2	57.6	84.6	185.4	296.2
30°	37.8	42.3	62.1	127.4	211.1
32.5°	27.5	31.5	46.4	88.2	147.2
35°	20.7	23.9	35.6	62.1	101.7
37.5°	17.1	18.9	29.3	45.0	72.0
40°	14.4	16.2	25.2	33.3	52.7
42.5°	12.6	14.9	20.7	24.8	39.6
45°	11.7	13.5	15.8	18.9	28.8
47.5°	11.7	11.3	12.2	14.4	20.3
50°	11.3	9.5	9.5	11.3	14.0
52.5°	9.5	7.7	7.7	8.1	9.5
55°	7.2	6.3	5.9	6.3	6.8
57.5°	5.4	5.4	5.0	4.5	5.0
60°	4.1	4.1	3.6	3.6	3.6
62.5°	3.2	3.2	3.2	2.7	3.2
65°	2.7	2.7	2.7	2.3	2.7
67.5°	2.3	2.3	1.8	2.3	2.3
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9
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)