

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: P1178447

Luminaire Tested: LDA2B059035R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B059035R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

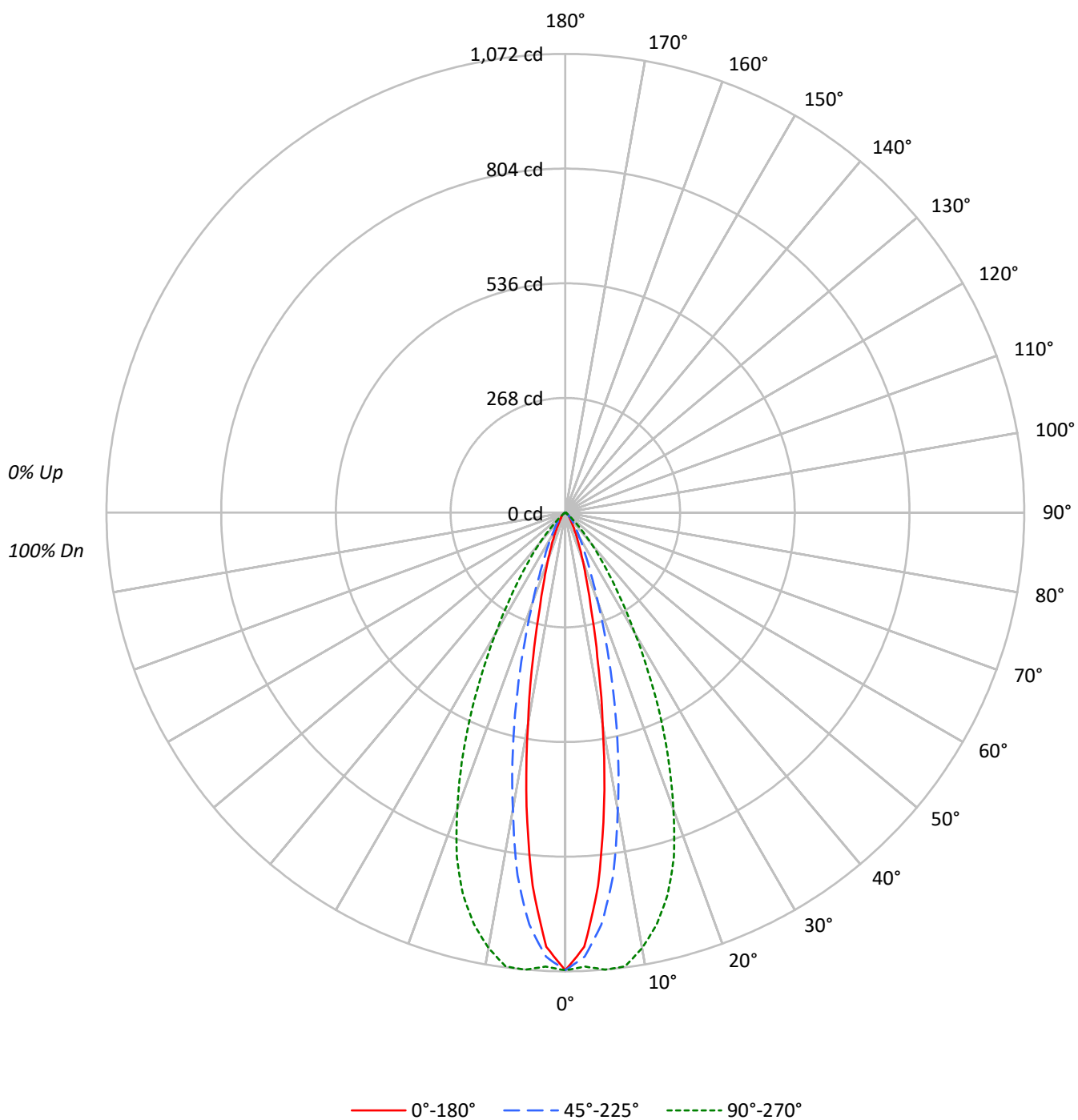
Lumens per Lamp: N/A
Luminaire Lumens: 384.3 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	86	77	72	69	84	77	72	69	76	71	68		75	71	68		74
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71
10	79	71	66	63	79	71	66	63	70	66	63		69	65	63		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	527552	527552	527552
5°	433737	478557	530904
10°	251739	353637	517605
15°	117272	220242	471692
20°	61795	116135	387678
25°	34241	62874	285955
30°	20053	36859	184920
35°	12889	24694	109555
40°	10047	16681	60862
45°	8721	9977	27071
50°	7906	6831	9901
55°	5333	4989	4645
60°	3947	3552	3552
65°	3152	2568	3152
70°	2596	2596	2596
75°	2478	2478	2478
80°	2557	2557	2557
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 27071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	22.2
10°-20°	139.4	36.3
20°-30°	93.0	24.2
30°-40°	41.9	10.9
40°-50°	15.3	4.0
50°-60°	5.4	1.4
60°-70°	2.5	0.7
70°-80°	1.3	0.3
80°-90°	0.3	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°	317.5	82.6
0°-40°	359.5	93.5
0°-60°	380.2	98.9
0°-90°	384.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	384.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	876	903	966	1037	1072	72
15°	230	270	431	729	924	69
25°	63	73	116	315	525	30
35°	21	24	41	89	182	14
45°	12	12	14	22	39	10
55°	6	6	6	5	5	6
65°	3	3	2	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°	1069.3	1069.3	1069.3	1069.3	1069.3
2.5°	1015.4	1026.1	1038.5	1051.5	1061.7
5°	875.8	903.0	966.3	1036.8	1072.0
7.5°	692.5	732.6	855.7	994.8	1069.3
10°	502.5	553.8	705.9	922.2	1033.2
12.5°	345.6	393.7	566.3	830.3	985.5
15°	229.6	269.8	431.2	728.6	923.5
17.5°	161.9	189.1	313.5	617.6	843.7
20°	117.7	136.0	221.2	508.8	738.4
22.5°	85.6	99.4	157.4	406.7	631.9
25°	62.9	73.1	115.5	314.8	525.3
27.5°	46.8	54.8	86.5	239.0	418.7
30°	35.2	41.9	64.7	176.1	324.6
32.5°	27.2	31.7	49.5	125.7	245.7
35°	21.4	24.1	41.0	88.7	181.9
37.5°	17.8	19.6	33.9	62.0	133.3
40°	15.6	16.9	25.9	44.1	94.5
42.5°	13.8	14.7	18.7	31.7	61.5
45°	12.5	12.5	14.3	22.3	38.8
47.5°	11.6	10.3	11.1	15.6	22.7
50°	10.3	8.5	8.9	10.7	12.9
52.5°	8.0	7.1	7.1	7.1	7.6
55°	6.2	5.8	5.8	4.9	5.4
57.5°	4.9	4.9	4.5	4.0	4.5
60°	4.0	4.0	3.6	3.1	3.6
62.5°	3.1	3.1	2.7	2.7	3.1
65°	2.7	2.7	2.2	2.2	2.7
67.5°	2.2	2.2	2.2	1.8	2.2
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.3	1.3	1.8	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3
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°	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4
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)