

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: P1178557

Luminaire Tested: LDA2B059727R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178557
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: LDA2B059727R2050D010 2LBD1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

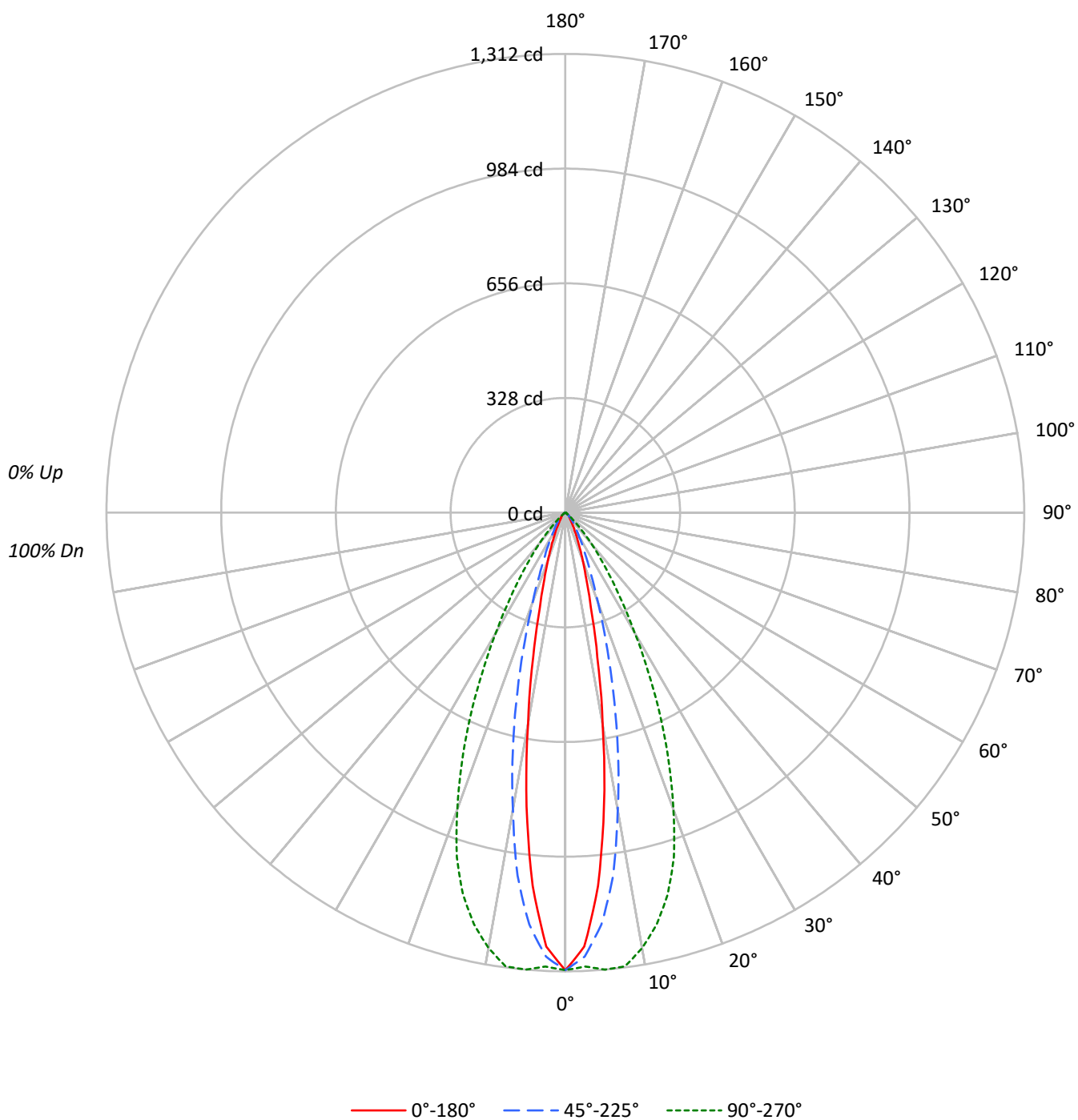
Lumens per Lamp: N/A
Luminaire Lumens: 470.3 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1178557

CATALOG NUMBER: LDA2B059727R2050D010 2LBD1MMS

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	85	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°	645613	645613	645613
5°	530756	585629	649664
10°	308098	432740	633430
15°	143525	269531	577216
20°	75656	142124	474465
25°	41862	76919	349918
30°	24553	45062	226336
35°	15780	30235	134068
40°	12301	20352	74515
45°	10675	12210	33142
50°	9671	8366	12127
55°	6537	6107	5591
60°	4835	4342	4342
65°	3852	3152	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: 33142 cd/sqm

TEST NUMBER: P1178557

CATALOG NUMBER: LDA2B059727R2050D010 2LBD1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	22.2
10°-20°	170.6	36.3
20°-30°	113.8	24.2
30°-40°	51.3	10.9
40°-50°	18.8	4.0
50°-60°	6.6	1.4
60°-70°	3.1	0.7
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°	388.6	82.6
0°-40°	439.9	93.5
0°-60°	465.2	98.9
0°-90°	470.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1072	1105	1182	1269	1312	88
15°	281	330	528	892	1130	84
25°	77	90	141	385	643	37
35°	26	30	50	109	223	17
45°	15	15	18	27	48	12
55°	8	7	7	6	6	7
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°	1308.6	1308.6	1308.6	1308.6	1308.6
2.5°	1242.5	1255.6	1270.9	1286.7	1299.3
5°	1071.7	1105.0	1182.5	1268.7	1311.8
7.5°	847.5	896.6	1047.2	1217.4	1308.6
10°	615.0	677.7	863.8	1128.5	1264.4
12.5°	422.9	481.8	693.0	1016.1	1206.0
15°	281.0	330.1	527.7	891.7	1130.1
17.5°	198.1	231.4	383.6	755.8	1032.4
20°	144.1	166.4	270.7	622.6	903.7
22.5°	104.8	121.7	192.6	497.7	773.2
25°	76.9	89.5	141.3	385.3	642.8
27.5°	57.3	67.1	105.9	292.5	512.4
30°	43.1	51.3	79.1	215.5	397.3
32.5°	33.3	38.7	60.6	153.9	300.7
35°	26.2	29.5	50.2	108.6	222.6
37.5°	21.8	24.0	41.5	75.9	163.2
40°	19.1	20.7	31.6	54.0	115.7
42.5°	16.9	18.0	22.9	38.7	75.3
45°	15.3	15.3	17.5	27.3	47.5
47.5°	14.2	12.6	13.6	19.1	27.8
50°	12.6	10.4	10.9	13.1	15.8
52.5°	9.8	8.7	8.7	8.7	9.3
55°	7.6	7.1	7.1	6.0	6.5
57.5°	6.0	6.0	5.5	4.9	5.5
60°	4.9	4.9	4.4	3.8	4.4
62.5°	3.8	3.8	3.3	3.3	3.8
65°	3.3	3.3	2.7	2.7	3.3
67.5°	2.7	2.7	2.7	2.2	2.7
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.6	1.6	2.2	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)