

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: P1178563

Luminaire Tested: LDA2B059727R2050D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178563
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 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

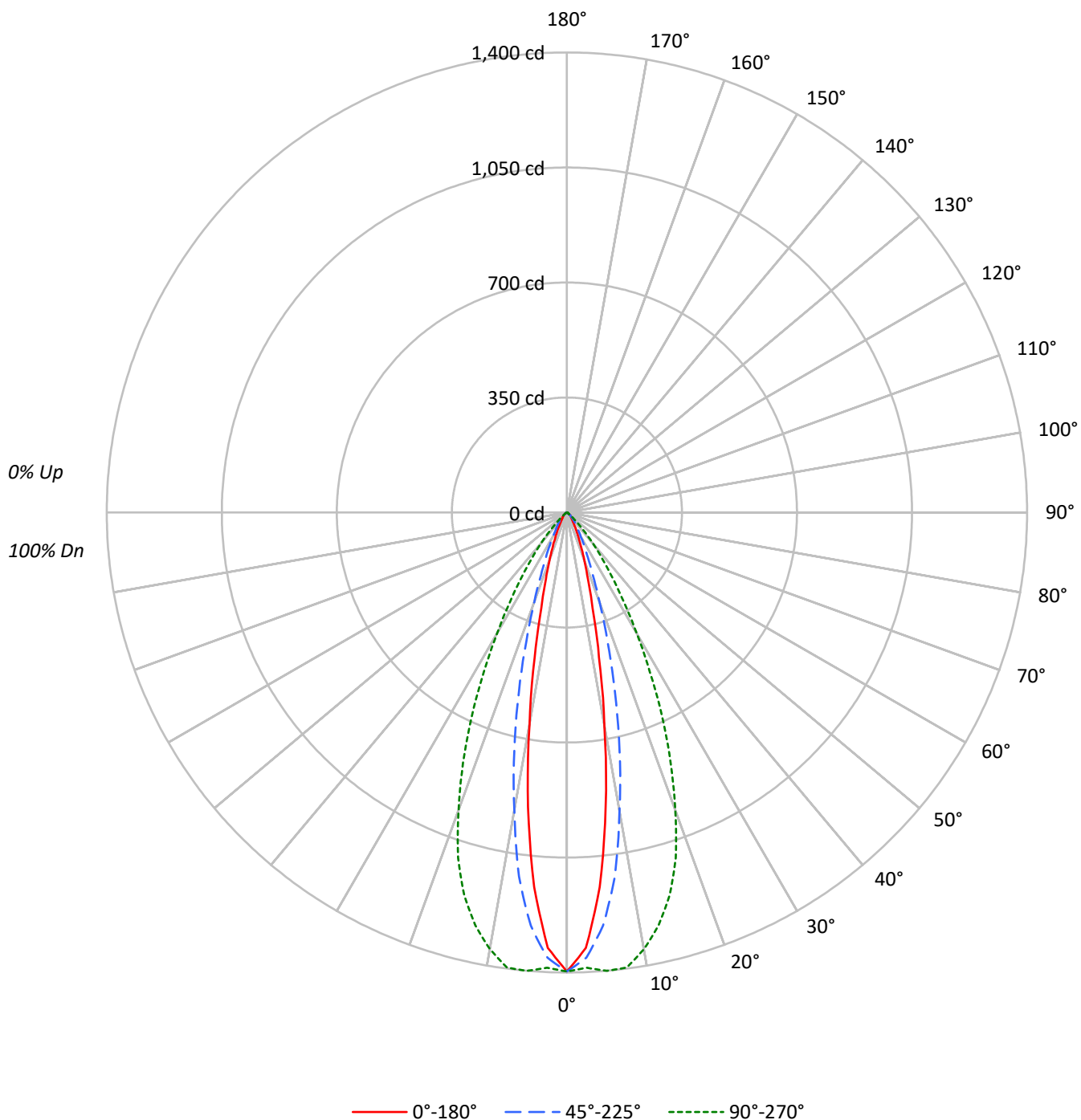
Lumens per Lamp: N/A
Luminaire Lumens: 502.1 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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		90
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	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	689078	689078	689078
5°	566512	625100	693444
10°	328838	461897	676113
15°	153230	287663	616137
20°	80749	151680	506386
25°	44692	82145	373488
30°	26206	48138	241546
35°	16864	32282	143103
40°	13138	21768	79539
45°	11373	12978	35374
50°	10285	8903	12971
55°	7053	6537	6021
60°	5131	4638	4638
65°	4086	3385	4086
70°	3318	3318	3318
75°	3241	3241	3241
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 35374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	22.2
10°-20°	182.1	36.3
20°-30°	121.5	24.2
30°-40°	54.8	10.9
40°-50°	20.0	4.0
50°-60°	7.0	1.4
60°-70°	3.3	0.7
70°-80°	1.7	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°	414.8	82.6
0°-40°	469.5	93.5
0°-60°	496.6	98.9
0°-90°	502.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1144	1180	1262	1354	1400	93
15°	300	352	563	952	1206	90
25°	82	96	151	411	686	40
35°	28	32	54	116	238	19
45°	16	16	19	29	51	13
55°	8	8	8	6	7	8
65°	4	4	3	3	4	4
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°	1396.7	1396.7	1396.7	1396.7	1396.7
2.5°	1326.3	1340.2	1356.5	1373.4	1386.8
5°	1143.9	1179.5	1262.2	1354.2	1400.2
7.5°	904.6	957.0	1117.7	1299.5	1396.7
10°	656.4	723.4	922.0	1204.5	1349.6
12.5°	451.4	514.3	739.7	1084.5	1287.2
15°	300.0	352.4	563.2	951.7	1206.3
17.5°	211.4	247.0	409.5	806.7	1102.0
20°	153.8	177.6	288.9	664.6	964.5
22.5°	111.8	129.9	205.6	531.2	825.3
25°	82.1	95.5	150.9	411.2	686.1
27.5°	61.2	71.6	113.0	312.2	546.9
30°	46.0	54.8	84.5	230.1	424.0
32.5°	35.5	41.4	64.7	164.3	320.9
35°	28.0	31.5	53.6	115.9	237.6
37.5°	23.3	25.6	44.3	81.0	174.2
40°	20.4	22.1	33.8	57.7	123.5
42.5°	18.1	19.2	24.5	41.4	80.4
45°	16.3	16.3	18.6	29.1	50.7
47.5°	15.1	13.4	14.6	20.4	29.7
50°	13.4	11.1	11.6	14.0	16.9
52.5°	10.5	9.3	9.3	9.3	9.9
55°	8.2	7.6	7.6	6.4	7.0
57.5°	6.4	6.4	5.8	5.2	5.8
60°	5.2	5.2	4.7	4.1	4.7
62.5°	4.1	4.1	3.5	3.5	4.1
65°	3.5	3.5	2.9	2.9	3.5
67.5°	2.9	2.9	2.9	2.3	2.9
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.7	1.7	2.3	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
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)