

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: P1178368

Luminaire Tested: LDA2B059027R2050D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178368
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: LDA2B059027R2050D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

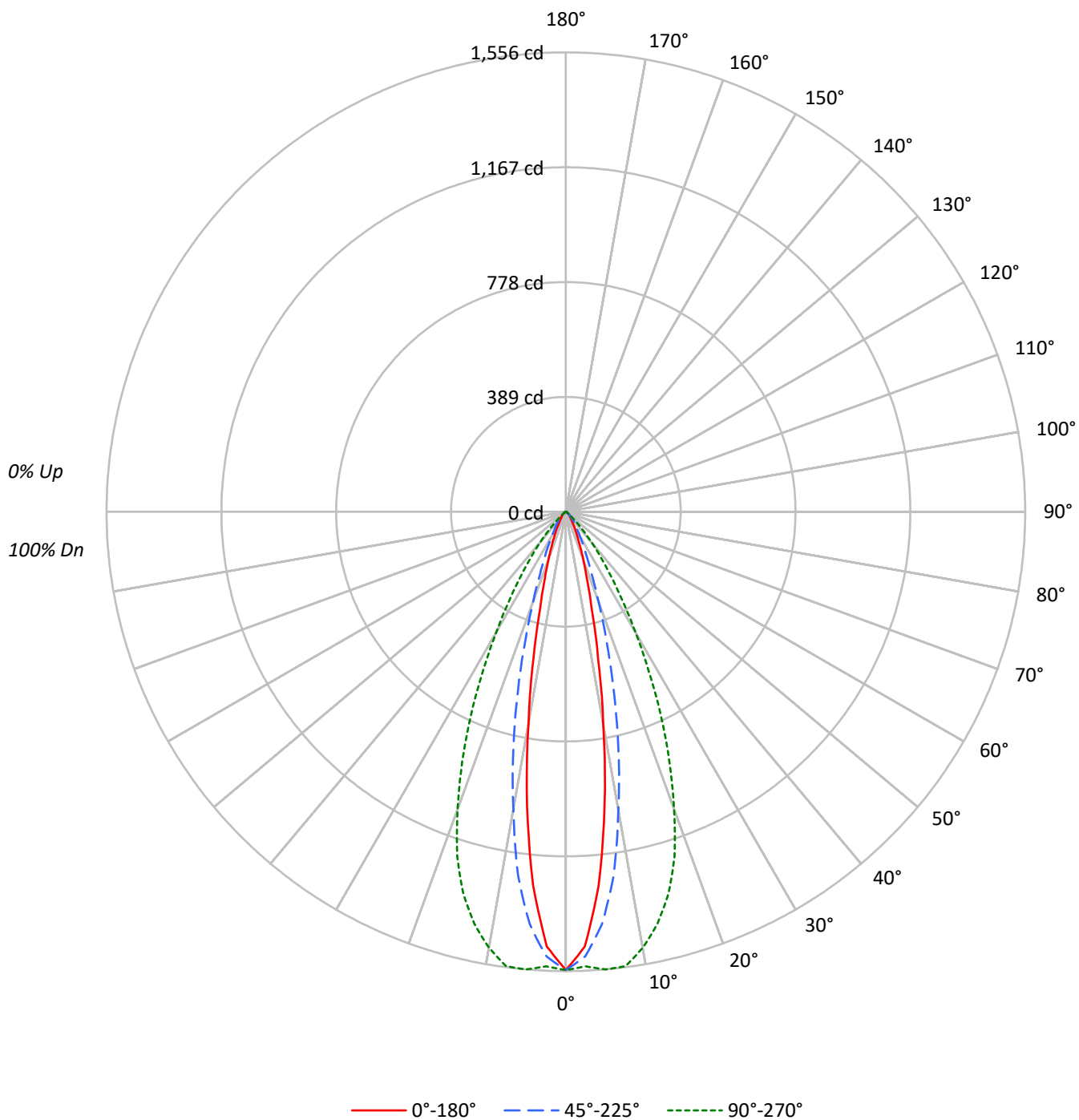
Lumens per Lamp: N/A
Luminaire Lumens: 558.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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		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°	765846	765846	765846
5°	629656	694732	770702
10°	365460	513347	751409
15°	170289	319739	684733
20°	89727	168585	562826
25°	49700	91290	415132
30°	29111	53493	268493
35°	18731	35896	159063
40°	14620	24151	88362
45°	12629	14443	39282
50°	11436	9901	14430
55°	7827	7225	6709
60°	5723	5131	5131
65°	4553	3736	4553
70°	3750	3750	3750
75°	3622	3622	3622
80°	3694	3694	3694
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 39282 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	22.2
10°-20°	202.4	36.3
20°-30°	135.0	24.2
30°-40°	60.9	10.9
40°-50°	22.3	4.0
50°-60°	7.8	1.4
60°-70°	3.6	0.7
70°-80°	1.9	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°	461.0	82.6
0°-40°	521.8	93.5
0°-60°	551.9	98.9
0°-90°	558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1271	1311	1403	1505	1556	104
15°	333	392	626	1058	1341	100
25°	91	106	168	457	763	44
35°	31	35	60	129	264	21
45°	18	18	21	32	56	14
55°	9	8	8	7	8	9
65°	4	4	3	3	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1474.0	1489.5	1507.6	1526.4	1541.3
5°	1271.4	1310.9	1402.8	1505.1	1556.2
7.5°	1005.3	1063.6	1242.2	1444.2	1552.3
10°	729.5	804.0	1024.7	1338.7	1499.9
12.5°	501.7	571.6	822.1	1205.3	1430.6
15°	333.4	391.6	626.0	1057.7	1340.6
17.5°	235.0	274.5	455.1	896.6	1224.8
20°	170.9	197.4	321.1	738.6	1072.0
22.5°	124.3	144.4	228.5	590.4	917.3
25°	91.3	106.2	167.7	457.0	762.6
27.5°	68.0	79.6	125.6	347.0	607.8
30°	51.1	60.8	93.9	255.7	471.3
32.5°	39.5	46.0	71.9	182.5	356.7
35°	31.1	35.0	59.6	128.8	264.1
37.5°	25.9	28.5	49.2	90.0	193.6
40°	22.7	24.6	37.5	64.1	137.2
42.5°	20.1	21.4	27.2	46.0	89.3
45°	18.1	18.1	20.7	32.4	56.3
47.5°	16.8	14.9	16.2	22.7	33.0
50°	14.9	12.3	12.9	15.5	18.8
52.5°	11.7	10.4	10.4	10.4	11.0
55°	9.1	8.4	8.4	7.1	7.8
57.5°	7.1	7.1	6.5	5.8	6.5
60°	5.8	5.8	5.2	4.5	5.2
62.5°	4.5	4.5	3.9	3.9	4.5
65°	3.9	3.9	3.2	3.2	3.9
67.5°	3.2	3.2	3.2	2.6	3.2
70°	2.6	2.6	2.6	2.6	2.6
72.5°	1.9	1.9	2.6	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3
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)