

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: P1178485

Luminaire Tested: LDA2B059040R2050D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178485
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: LDA2B059040R2050D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

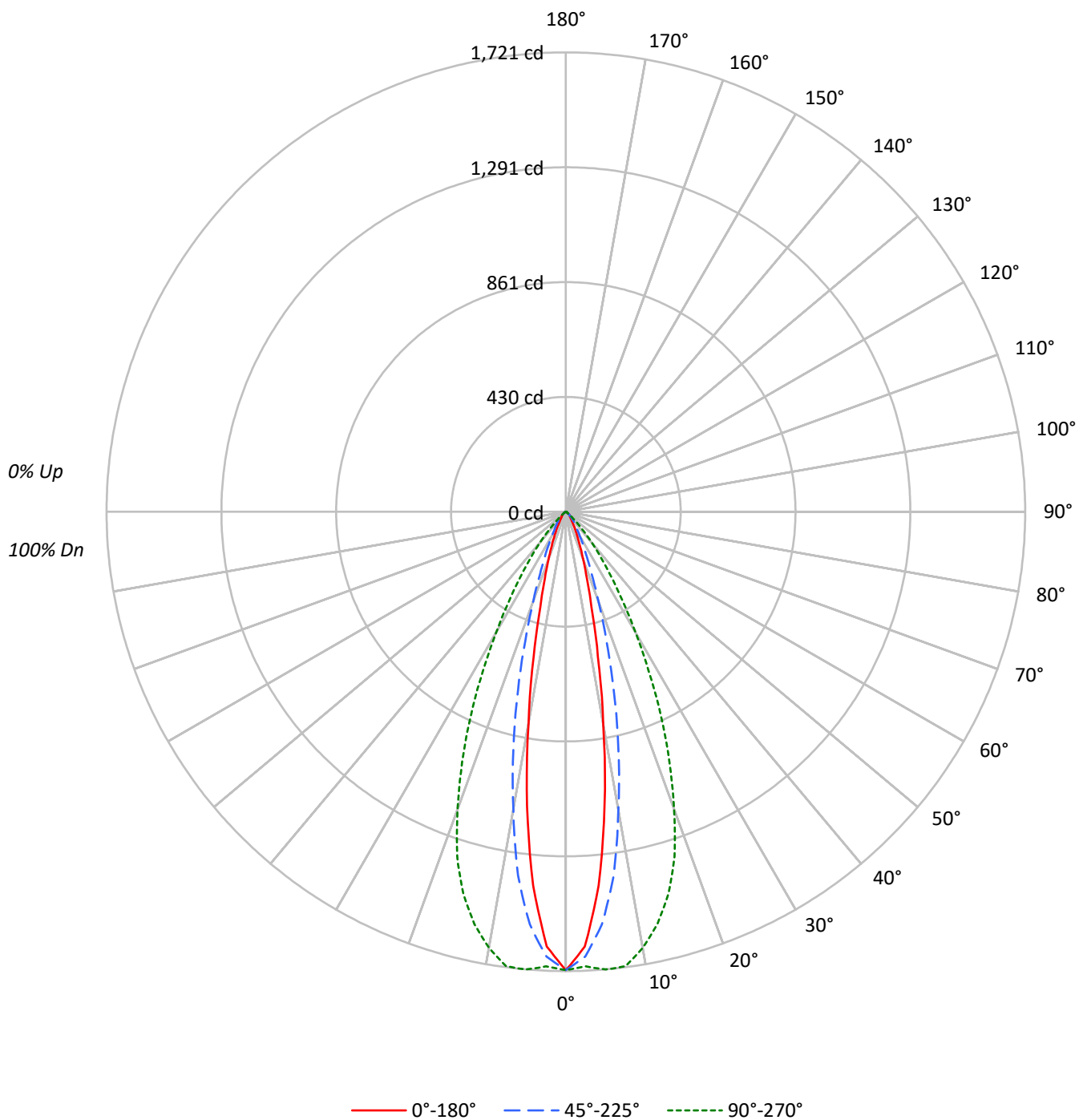
Lumens per Lamp: N/A
Luminaire Lumens: 617.2 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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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°	847152	847152	847152
5°	696465	768474	852517
10°	404285	567853	831164
15°	188370	353654	757414
20°	99230	186489	622574
25°	54981	100980	459171
30°	32244	59133	296977
35°	20719	39690	175927
40°	16165	26728	97765
45°	13954	15978	43468
50°	12664	10976	15965
55°	8602	7999	7397
60°	6315	5624	5624
65°	5020	4203	5020
70°	4183	4183	4183
75°	4003	4003	4003
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 43468 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	22.2
10°-20°	223.9	36.3
20°-30°	149.3	24.2
30°-40°	67.3	10.9
40°-50°	24.6	4.0
50°-60°	8.6	1.4
60°-70°	4.0	0.7
70°-80°	2.1	0.3
80°-90°	0.6	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°	509.9	82.6
0°-40°	577.2	93.5
0°-60°	610.5	98.9
0°-90°	617.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1406	1450	1552	1665	1721	115
15°	369	433	692	1170	1483	110
25°	101	117	186	506	844	49
35°	34	39	66	142	292	23
45°	20	20	23	36	62	16
55°	10	9	9	8	9	9
65°	4	4	4	4	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°	1717.1	1717.1	1717.1	1717.1	1717.1
2.5°	1630.4	1647.6	1667.7	1688.4	1704.9
5°	1406.3	1450.0	1551.7	1664.8	1721.4
7.5°	1112.0	1176.5	1374.1	1597.5	1717.1
10°	807.0	889.3	1133.5	1480.8	1659.1
12.5°	554.9	632.3	909.4	1333.3	1582.5
15°	368.8	433.2	692.4	1170.0	1482.9
17.5°	259.9	303.6	503.4	991.7	1354.8
20°	189.0	218.4	355.2	817.0	1185.8
22.5°	137.5	159.7	252.8	653.0	1014.6
25°	101.0	117.4	185.5	505.5	843.5
27.5°	75.2	88.1	138.9	383.8	672.4
30°	56.6	67.3	103.8	282.8	521.3
32.5°	43.7	50.8	79.5	201.9	394.5
35°	34.4	38.7	65.9	142.5	292.1
37.5°	28.6	31.5	54.4	99.5	214.1
40°	25.1	27.2	41.5	70.9	151.8
42.5°	22.2	23.6	30.1	50.8	98.8
45°	20.0	20.0	22.9	35.8	62.3
47.5°	18.6	16.5	17.9	25.1	36.5
50°	16.5	13.6	14.3	17.2	20.8
52.5°	12.9	11.5	11.5	11.5	12.2
55°	10.0	9.3	9.3	7.9	8.6
57.5°	7.9	7.9	7.2	6.4	7.2
60°	6.4	6.4	5.7	5.0	5.7
62.5°	5.0	5.0	4.3	4.3	5.0
65°	4.3	4.3	3.6	3.6	4.3
67.5°	3.6	3.6	3.6	2.9	3.6
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.1	2.1	2.9	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)