

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: P1178251

Luminaire Tested: LDA2B058040R2050D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178251
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: LDA2B058040R2050D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

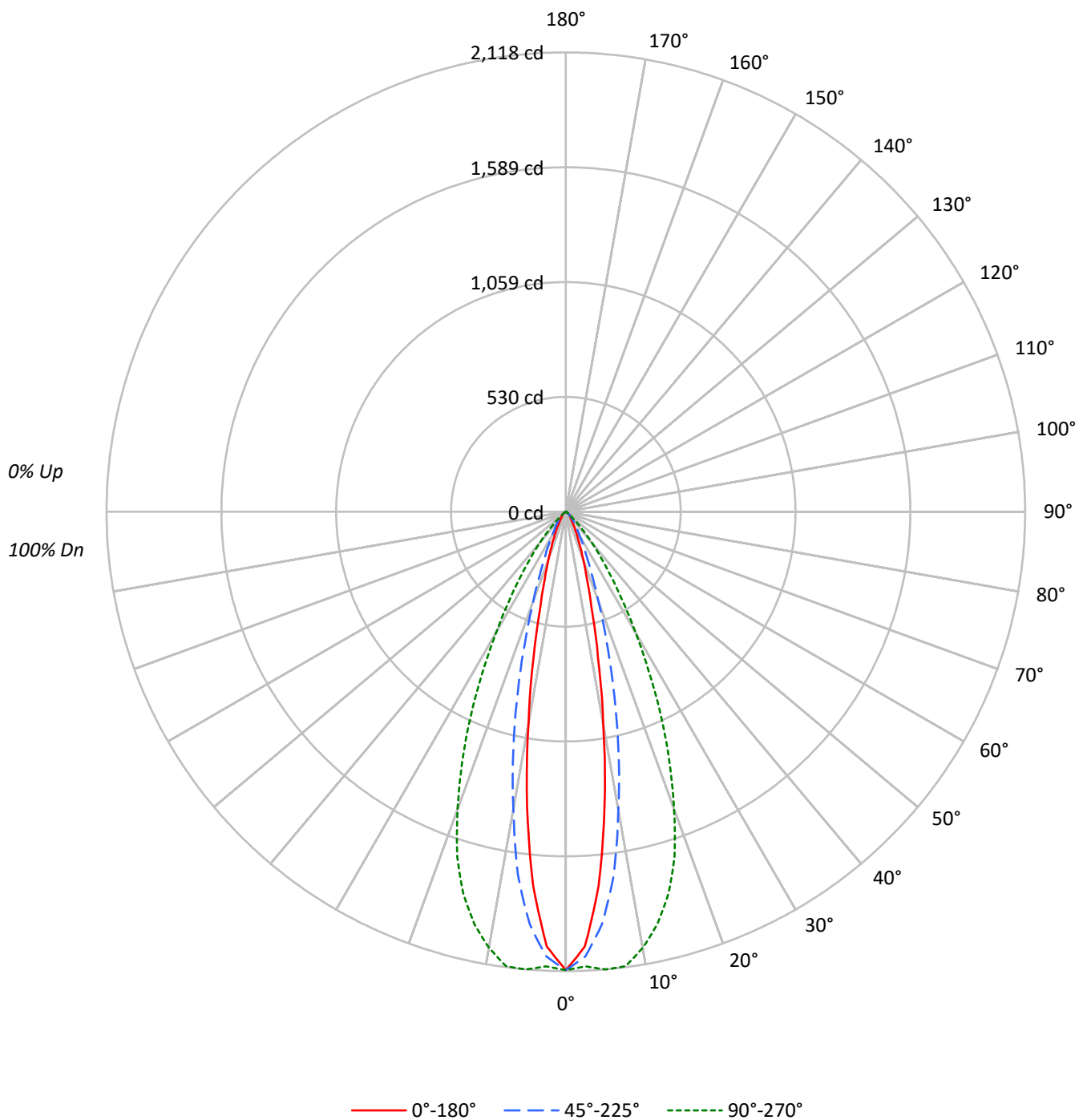
Lumens per Lamp: N/A
Luminaire Lumens: 759.6 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1042523	1042523	1042523
5°	857123	945722	1049130
10°	497516	698807	1022836
15°	231785	435223	932147
20°	122121	229488	766168
25°	67610	124224	565105
30°	39650	72806	365453
35°	25477	48845	216521
40°	19836	32910	120306
45°	17234	19676	53515
50°	15581	13509	19649
55°	10580	9892	9118
60°	7795	6907	6907
65°	6187	5137	6187
70°	5049	5049	5049
75°	4956	4956	4956
80°	5114	5114	5114
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 53515 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	22.2
10°-20°	275.5	36.3
20°-30°	183.8	24.2
30°-40°	82.8	10.9
40°-50°	30.3	4.0
50°-60°	10.6	1.4
60°-70°	5.0	0.7
70°-80°	2.6	0.3
80°-90°	0.7	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°	627.5	82.6
0°-40°	710.4	93.5
0°-60°	751.3	98.9
0°-90°	759.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	1731	1784	1910	2049	2118	141
15°	454	533	852	1440	1825	136
25°	124	144	228	622	1038	60
35°	42	48	81	175	360	28
45°	25	25	28	44	77	19
55°	12	12	12	10	11	12
65°	5	5	4	4	5	5
75°	3	3	3	3	3	3
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°	2113.1	2113.1	2113.1	2113.1	2113.1
2.5°	2006.5	2027.6	2052.3	2077.9	2098.1
5°	1730.7	1784.4	1909.6	2048.8	2118.4
7.5°	1368.5	1447.8	1691.0	1966.0	2113.1
10°	993.1	1094.5	1394.9	1822.3	2041.7
12.5°	682.9	778.1	1119.1	1640.8	1947.5
15°	453.8	533.1	852.1	1439.9	1825.0
17.5°	319.9	373.6	619.5	1220.5	1667.2
20°	232.6	268.8	437.1	1005.5	1459.3
22.5°	169.2	196.5	311.1	803.7	1248.7
25°	124.2	144.5	228.2	622.1	1038.1
27.5°	92.5	108.4	171.0	472.3	827.4
30°	69.6	82.8	127.8	348.1	641.5
32.5°	53.8	62.6	97.8	248.5	485.5
35°	42.3	47.6	81.1	175.4	359.5
37.5°	35.2	38.8	67.0	122.5	263.5
40°	30.8	33.5	51.1	87.2	186.8
42.5°	27.3	29.1	37.0	62.6	121.6
45°	24.7	24.7	28.2	44.1	76.7
47.5°	22.9	20.3	22.0	30.8	44.9
50°	20.3	16.7	17.6	21.1	25.6
52.5°	15.9	14.1	14.1	14.1	15.0
55°	12.3	11.5	11.5	9.7	10.6
57.5°	9.7	9.7	8.8	7.9	8.8
60°	7.9	7.9	7.0	6.2	7.0
62.5°	6.2	6.2	5.3	5.3	6.2
65°	5.3	5.3	4.4	4.4	5.3
67.5°	4.4	4.4	4.4	3.5	4.4
70°	3.5	3.5	3.5	3.5	3.5
72.5°	2.6	2.6	3.5	2.6	2.6
75°	2.6	2.6	2.6	2.6	2.6
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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)