

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: P1178290

Luminaire Tested: LDA2B058050R2050D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178290
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: LDA2B058050R2050D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

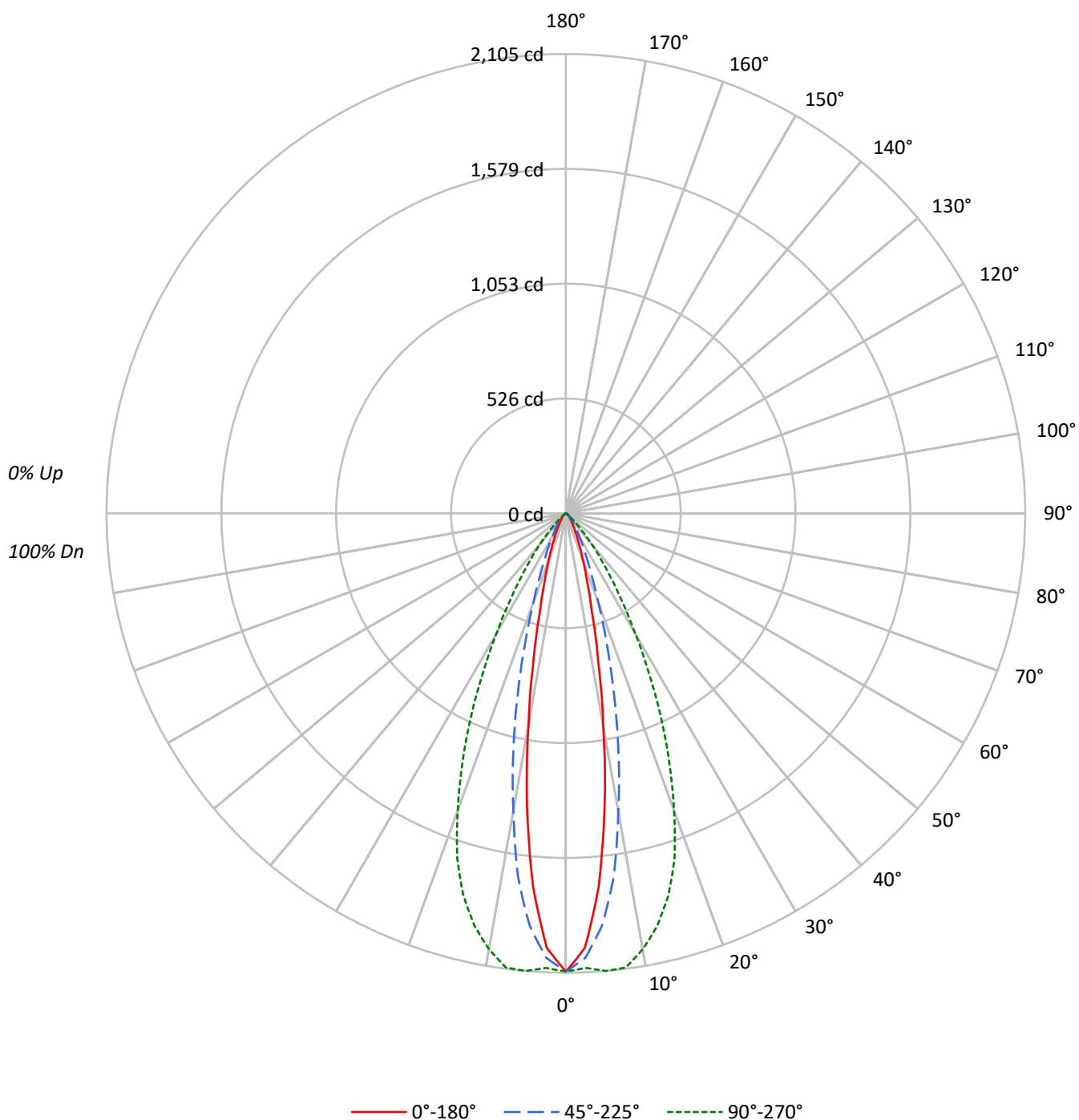
Lumens per Lamp: N/A
Luminaire Lumens: 754.7 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1035714	1035714	1035714
5°	851527	939532	1042295
10°	494260	694248	1016173
15°	230304	432414	926069
20°	121333	227966	761181
25°	67175	123407	561403
30°	39422	72293	363060
35°	25296	48484	215136
40°	19708	32717	119533
45°	17094	19536	53166
50°	15427	13432	19495
55°	10580	9806	9032
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: 53166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	22.1
10°-20°	273.7	36.3
20°-30°	182.6	24.2
30°-40°	82.3	10.9
40°-50°	30.1	4.0
50°-60°	10.5	1.4
60°-70°	4.9	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°	623.4	82.6
0°-40°	705.7	93.5
0°-60°	746.4	98.9
0°-90°	754.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	1719	1773	1897	2035	2105	140
15°	451	530	847	1430	1813	135
25°	123	144	227	618	1031	60
35°	42	47	80	174	357	28
45°	24	24	28	44	76	19
55°	12	11	11	10	10	11
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°	2099.3	2099.3	2099.3	2099.3	2099.3
2.5°	1993.4	2014.4	2038.9	2064.3	2084.5
5°	1719.4	1772.8	1897.1	2035.4	2104.6
7.5°	1359.6	1438.4	1680.0	1953.1	2099.3
10°	986.6	1087.3	1385.8	1810.4	2028.4
12.5°	678.5	773.0	1111.8	1630.1	1934.8
15°	450.9	529.7	846.6	1430.5	1813.1
17.5°	317.8	371.2	615.4	1212.5	1656.4
20°	231.1	267.0	434.2	998.9	1449.8
22.5°	168.1	195.2	309.0	798.4	1240.5
25°	123.4	143.6	226.7	618.1	1031.3
27.5°	91.9	107.7	169.8	469.2	822.1
30°	69.2	82.3	126.9	345.8	637.3
32.5°	53.4	62.2	97.2	246.9	482.4
35°	42.0	47.3	80.5	174.2	357.2
37.5°	35.0	38.5	66.5	121.7	261.8
40°	30.6	33.3	50.8	86.7	185.6
42.5°	27.1	28.9	36.8	62.2	120.8
45°	24.5	24.5	28.0	43.8	76.2
47.5°	22.8	20.1	21.9	30.6	44.6
50°	20.1	16.6	17.5	21.0	25.4
52.5°	15.8	14.0	14.0	14.0	14.9
55°	12.3	11.4	11.4	9.6	10.5
57.5°	9.6	9.6	8.8	7.9	8.8
60°	7.9	7.9	7.0	6.1	7.0
62.5°	6.1	6.1	5.3	5.3	6.1
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)