

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: P1178137

Luminaire Tested: LDA2B058027R2050D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178137
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: LDA2B058027R2050D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

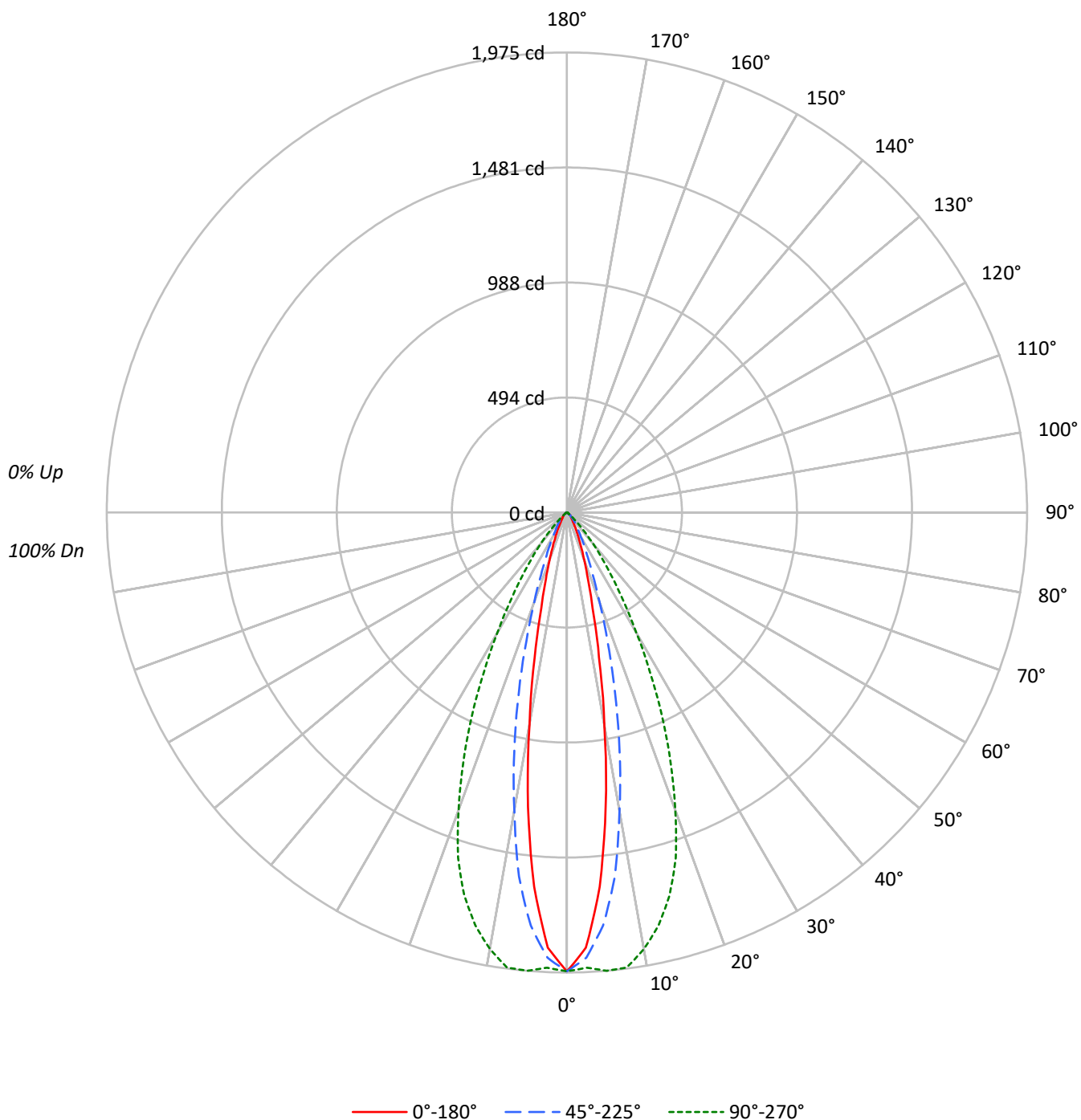
Lumens per Lamp: N/A
Luminaire Lumens: 708.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	971824	971824	971824
5°	798981	881588	978012
10°	463801	651465	953501
15°	216054	405701	868915
20°	113878	213895	714191
25°	63037	115841	526782
30°	36973	67849	340672
35°	23730	45533	201885
40°	18548	30656	112127
45°	16048	18350	49887
50°	14506	12588	18267
55°	9892	9204	8515
60°	7302	6512	6512
65°	5720	4786	5720
70°	4760	4760	4760
75°	4766	4766	4766
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 49887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	22.2
10°-20°	256.8	36.3
20°-30°	171.3	24.2
30°-40°	77.2	10.9
40°-50°	28.3	4.0
50°-60°	9.9	1.4
60°-70°	4.6	0.7
70°-80°	2.4	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°	585.0	82.6
0°-40°	662.2	93.5
0°-60°	700.3	98.9
0°-90°	708.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	708.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1613	1663	1780	1910	1975	132
15°	423	497	794	1342	1701	127
25°	116	135	213	580	968	56
35°	39	44	76	164	335	26
45°	23	23	26	41	72	18
55°	12	11	11	9	10	11
65°	5	5	4	4	5	5
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°	1969.8	1969.8	1969.8	1969.8	1969.8
2.5°	1870.4	1890.2	1913.2	1937.0	1955.9
5°	1613.3	1663.4	1780.1	1909.9	1974.8
7.5°	1275.7	1349.6	1576.4	1832.6	1969.8
10°	925.8	1020.2	1300.4	1698.8	1903.3
12.5°	636.6	725.3	1043.2	1529.5	1815.4
15°	423.0	497.0	794.3	1342.2	1701.2
17.5°	298.2	348.3	577.5	1137.7	1554.2
20°	216.9	250.5	407.4	937.3	1360.3
22.5°	157.7	183.2	290.0	749.2	1164.0
25°	115.8	134.7	212.8	579.9	967.7
27.5°	86.3	101.0	159.4	440.3	771.3
30°	64.9	77.2	119.1	324.5	598.0
32.5°	50.1	58.3	91.2	231.6	452.6
35°	39.4	44.4	75.6	163.5	335.2
37.5°	32.9	36.1	62.4	114.2	245.6
40°	28.8	31.2	47.6	81.3	174.1
42.5°	25.5	27.1	34.5	58.3	113.4
45°	23.0	23.0	26.3	41.1	71.5
47.5°	21.4	18.9	20.5	28.8	41.9
50°	18.9	15.6	16.4	19.7	23.8
52.5°	14.8	13.1	13.1	13.1	14.0
55°	11.5	10.7	10.7	9.0	9.9
57.5°	9.0	9.0	8.2	7.4	8.2
60°	7.4	7.4	6.6	5.8	6.6
62.5°	5.8	5.8	4.9	4.9	5.8
65°	4.9	4.9	4.1	4.1	4.9
67.5°	4.1	4.1	4.1	3.3	4.1
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	3.3	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)