

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: P1179513

Luminaire Tested: LDA2B159050R2040D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B159050R2040D010 2LBD1MMS
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

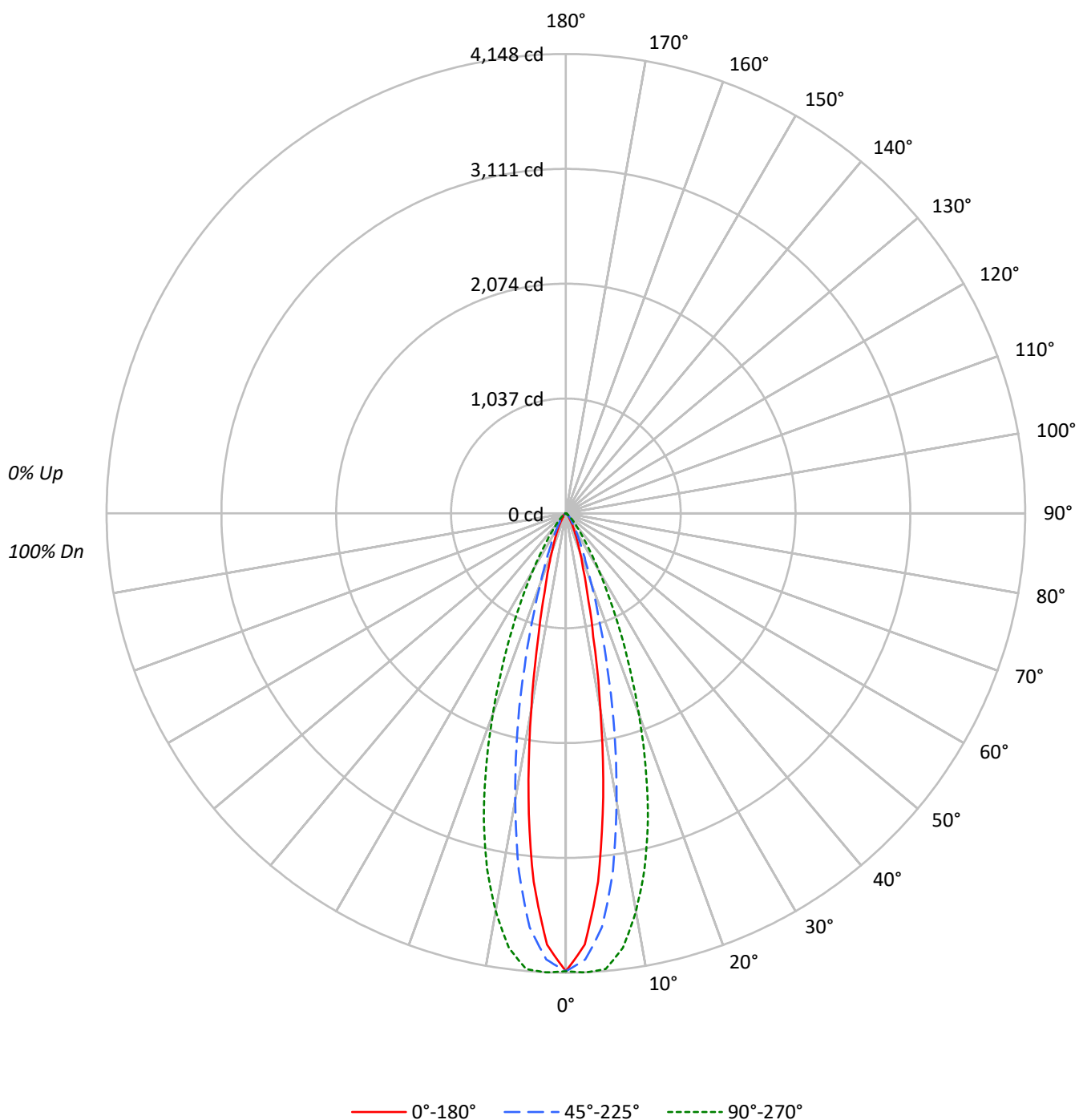
Lumens per Lamp: N/A
Luminaire Lumens: 1165.3 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	88	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2039854	2039854	2039854
5°	1653429	1857075	2045120
10°	898945	1318510	1826246
15°	380214	739895	1461811
20°	194102	347934	1010777
25°	107458	177953	616057
30°	60159	98840	336000
35°	34812	59807	171169
40°	25890	45340	94738
45°	22815	30700	56166
50°	24101	20263	29934
55°	17289	14020	16257
60°	11150	9966	9966
65°	8755	8755	8755
70°	7212	7212	7212
75°	7244	7244	7244
80°	7103	7103	7103
85°	7359	7359	7359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 56166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.2	27.6
10°-20°	455.6	39.1
20°-30°	234.7	20.1
30°-40°	86.3	7.4
40°-50°	37.9	3.3
50°-60°	16.6	1.4
60°-70°	7.3	0.6
70°-80°	3.7	0.3
80°-90°	1.0	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°	1012.4	86.9
0°-40°	1098.7	94.3
0°-60°	1153.3	99.0
0°-90°	1165.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1165.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4135	4135	4135	4135	4135	
5°	3339	3452	3750	4015	4130	269
15°	744	865	1449	2417	2862	228
25°	197	221	327	751	1132	95
35°	58	67	99	174	284	39
45°	33	38	44	53	80	26
55°	20	18	16	18	19	18
65°	8	8	8	6	8	8
75°	4	4	4	4	4	4
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°	4134.6	4134.6	4134.6	4134.6	4134.6
2.5°	3898.2	3944.7	4031.5	4114.4	4148.4
5°	3338.6	3451.8	3749.8	4015.1	4129.5
7.5°	2585.4	2771.5	3254.3	3751.0	3954.7
10°	1794.4	1983.0	2631.9	3346.1	3645.4
12.5°	1144.3	1327.9	2028.3	2897.2	3285.8
15°	744.4	865.1	1448.6	2416.9	2862.0
17.5°	516.8	602.3	985.9	1907.6	2393.0
20°	369.7	430.1	662.7	1454.9	1925.2
22.5°	267.8	309.3	460.2	1062.6	1496.4
25°	197.4	221.3	326.9	750.7	1131.7
27.5°	145.9	161.0	236.4	518.1	827.4
30°	105.6	118.2	173.5	355.9	589.8
32.5°	76.7	88.0	129.5	246.5	411.2
35°	57.8	66.6	99.3	173.5	284.2
37.5°	47.8	52.8	81.7	125.7	201.2
40°	40.2	45.3	70.4	93.1	147.1
42.5°	35.2	41.5	57.8	69.2	110.7
45°	32.7	37.7	44.0	52.8	80.5
47.5°	32.7	31.4	34.0	40.2	56.6
50°	31.4	26.4	26.4	31.4	39.0
52.5°	26.4	21.4	21.4	22.6	26.4
55°	20.1	17.6	16.3	17.6	18.9
57.5°	15.1	15.1	13.8	12.6	13.8
60°	11.3	11.3	10.1	10.1	10.1
62.5°	8.8	8.8	8.8	7.5	8.8
65°	7.5	7.5	7.5	6.3	7.5
67.5°	6.3	6.3	5.0	6.3	6.3
70°	5.0	5.0	5.0	5.0	5.0
72.5°	3.8	3.8	3.8	3.8	3.8
75°	3.8	3.8	3.8	3.8	3.8
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	1.3
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)