

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: P1179048

Luminaire Tested: LDA2B109727R2040D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179048
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: LDA2B109727R2040D010 2LBD1MMS
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

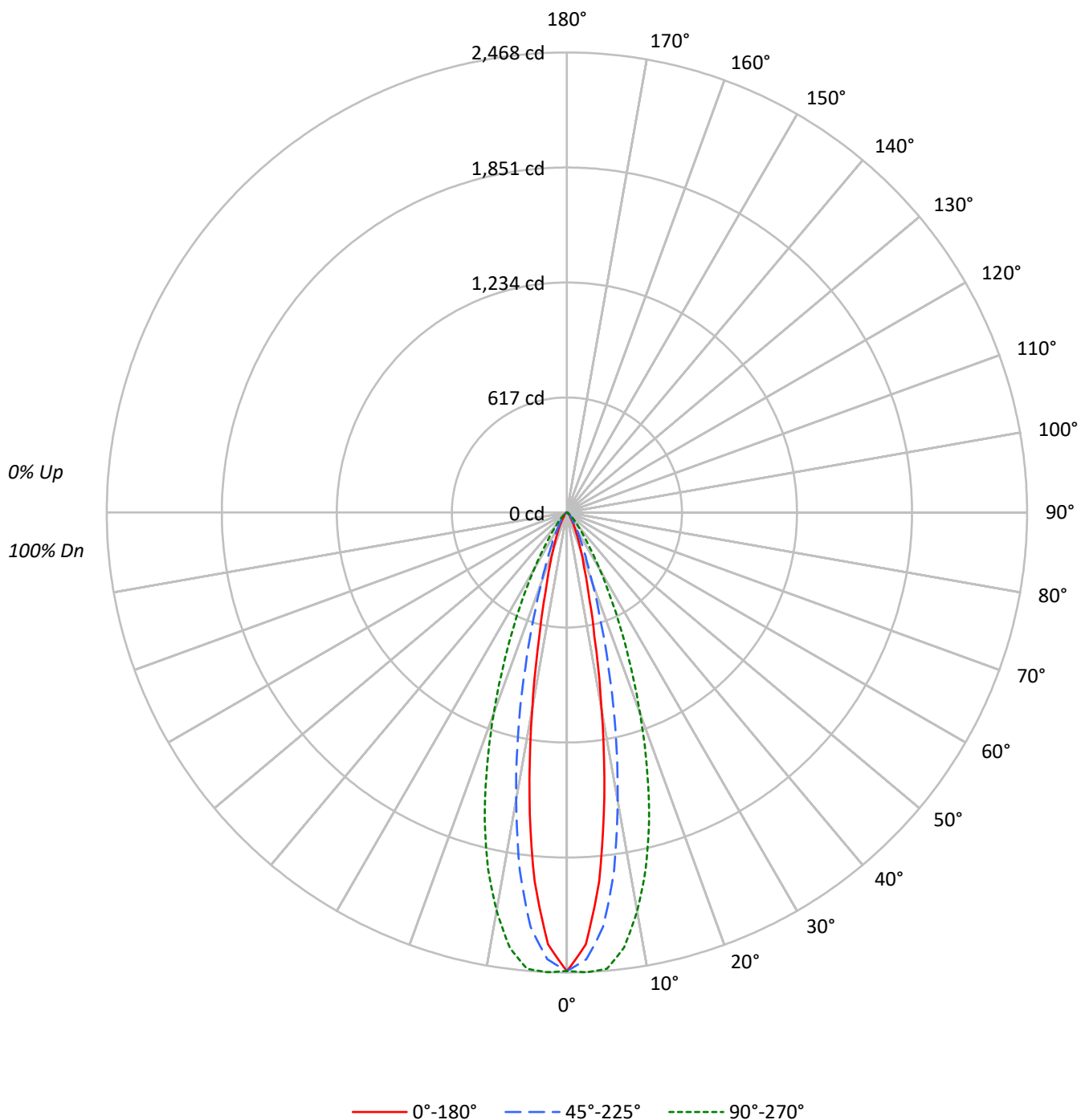
Lumens per Lamp: N/A
Luminaire Lumens: 693.3 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	97	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	92	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	88	88	87
4	102	96	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	84	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	81	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	77	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	74	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	72	72	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	69	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	67	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1213818	1213818	1213818
5°	983856	1105043	1216969
10°	534939	784573	1086710
15°	226269	440280	869834
20°	115505	207017	601468
25°	63963	105879	366575
30°	35833	58848	199903
35°	20719	35595	101846
40°	15393	26985	56353
45°	13606	18280	33421
50°	14353	12050	17807
55°	10322	8343	9634
60°	6611	5920	5920
65°	5253	5253	5253
70°	4327	4327	4327
75°	4194	4194	4194
80°	4262	4262	4262
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 33421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	27.6
10°-20°	271.1	39.1
20°-30°	139.7	20.1
30°-40°	51.4	7.4
40°-50°	22.6	3.3
50°-60°	9.9	1.4
60°-70°	4.3	0.6
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°	602.4	86.9
0°-40°	653.8	94.3
0°-60°	686.3	99.0
0°-90°	693.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2460	2460	2460	2460	2460	
5°	1987	2054	2231	2389	2457	160
15°	443	515	862	1438	1703	135
25°	118	132	194	447	673	56
35°	34	40	59	103	169	23
45°	20	22	26	31	48	16
55°	12	10	10	10	11	11
65°	4	4	4	4	4	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°	2460.3	2460.3	2460.3	2460.3	2460.3
2.5°	2319.6	2347.3	2398.9	2448.3	2468.5
5°	1986.6	2054.0	2231.3	2389.2	2457.3
7.5°	1538.4	1649.2	1936.5	2232.1	2353.3
10°	1067.8	1180.0	1566.1	1991.1	2169.2
12.5°	680.9	790.2	1206.9	1724.0	1955.2
15°	443.0	514.8	862.0	1438.2	1703.0
17.5°	307.5	358.4	586.6	1135.1	1423.9
20°	220.0	255.9	394.3	865.7	1145.6
22.5°	159.4	184.1	273.9	632.3	890.4
25°	117.5	131.7	194.5	446.7	673.4
27.5°	86.8	95.8	140.7	308.3	492.4
30°	62.9	70.3	103.3	211.8	350.9
32.5°	45.6	52.4	77.1	146.7	244.7
35°	34.4	39.7	59.1	103.3	169.1
37.5°	28.4	31.4	48.6	74.8	119.7
40°	23.9	26.9	41.9	55.4	87.5
42.5°	21.0	24.7	34.4	41.2	65.8
45°	19.5	22.4	26.2	31.4	47.9
47.5°	19.5	18.7	20.2	23.9	33.7
50°	18.7	15.7	15.7	18.7	23.2
52.5°	15.7	12.7	12.7	13.5	15.7
55°	12.0	10.5	9.7	10.5	11.2
57.5°	9.0	9.0	8.2	7.5	8.2
60°	6.7	6.7	6.0	6.0	6.0
62.5°	5.2	5.2	5.2	4.5	5.2
65°	4.5	4.5	4.5	3.7	4.5
67.5°	3.7	3.7	3.0	3.7	3.7
70°	3.0	3.0	3.0	3.0	3.0
72.5°	2.2	2.2	2.2	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
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)