

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: P1178988

Luminaire Tested: LDA2B109040R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178988
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: LDA2B109040R2050D010 2LBDC1MB
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

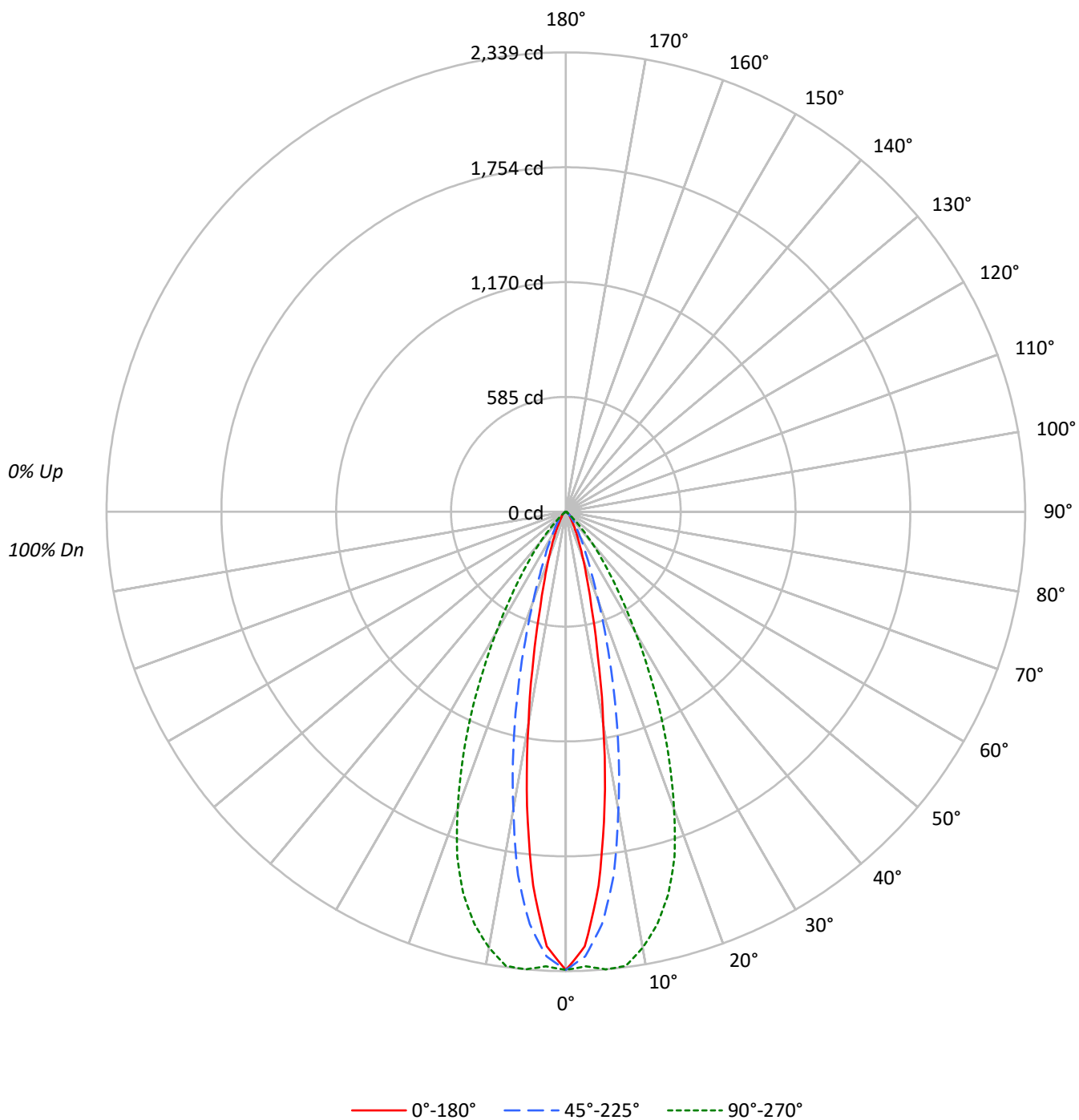
Lumens per Lamp: N/A
Luminaire Lumens: 838.5 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	1150865	1150865	1150865
5°	946218	1043979	1158183
10°	549216	771448	1129142
15°	255894	480477	1028989
20°	134826	253324	845762
25°	74687	137180	623787
30°	43809	80383	403451
35°	28127	53904	239046
40°	21897	36324	132801
45°	18978	21699	59027
50°	17193	14967	21644
55°	11698	10838	10064
60°	8683	7696	7696
65°	6771	5720	6771
70°	5626	5626	5626
75°	5528	5528	5528
80°	5398	5398	5398
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 59027 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	22.2
10°-20°	304.1	36.3
20°-30°	202.9	24.2
30°-40°	91.5	10.9
40°-50°	33.5	4.0
50°-60°	11.7	1.4
60°-70°	5.5	0.7
70°-80°	2.9	0.3
80°-90°	0.8	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°	692.7	82.6
0°-40°	784.2	93.5
0°-60°	829.4	98.9
0°-90°	838.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2333	2333	2333	2333	2333	
5°	1911	1970	2108	2262	2339	156
15°	501	588	941	1590	2015	150
25°	137	160	252	687	1146	66
35°	47	52	90	194	397	31
45°	27	27	31	49	85	21
55°	14	13	13	11	12	13
65°	6	6	5	5	6	6
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°	2332.7	2332.7	2332.7	2332.7	2332.7
2.5°	2215.0	2238.4	2265.6	2293.8	2316.2
5°	1910.6	1969.9	2108.0	2261.7	2338.6
7.5°	1510.7	1598.3	1866.8	2170.3	2332.7
10°	1096.3	1208.2	1539.9	2011.7	2253.9
12.5°	753.9	859.0	1235.4	1811.3	2149.9
15°	501.0	588.5	940.7	1589.5	2014.6
17.5°	353.1	412.5	683.9	1347.3	1840.5
20°	256.8	296.7	482.5	1110.0	1610.9
22.5°	186.8	216.9	343.4	887.2	1378.4
25°	137.2	159.5	252.0	686.8	1145.9
27.5°	102.1	119.7	188.7	521.4	913.4
30°	76.9	91.4	141.1	384.3	708.2
32.5°	59.3	69.1	108.0	274.3	536.0
35°	46.7	52.5	89.5	193.6	396.9
37.5°	38.9	42.8	73.9	135.2	290.9
40°	34.0	37.0	56.4	96.3	206.2
42.5°	30.2	32.1	40.9	69.1	134.2
45°	27.2	27.2	31.1	48.6	84.6
47.5°	25.3	22.4	24.3	34.0	49.6
50°	22.4	18.5	19.5	23.3	28.2
52.5°	17.5	15.6	15.6	15.6	16.5
55°	13.6	12.6	12.6	10.7	11.7
57.5°	10.7	10.7	9.7	8.8	9.7
60°	8.8	8.8	7.8	6.8	7.8
62.5°	6.8	6.8	5.8	5.8	6.8
65°	5.8	5.8	4.9	4.9	5.8
67.5°	4.9	4.9	4.9	3.9	4.9
70°	3.9	3.9	3.9	3.9	3.9
72.5°	2.9	2.9	3.9	2.9	2.9
75°	2.9	2.9	2.9	2.9	2.9
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)