

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: P1178871

Luminaire Tested: LDA2B109027R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178871
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: LDA2B109027R2050D010 2LBDC1MB
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

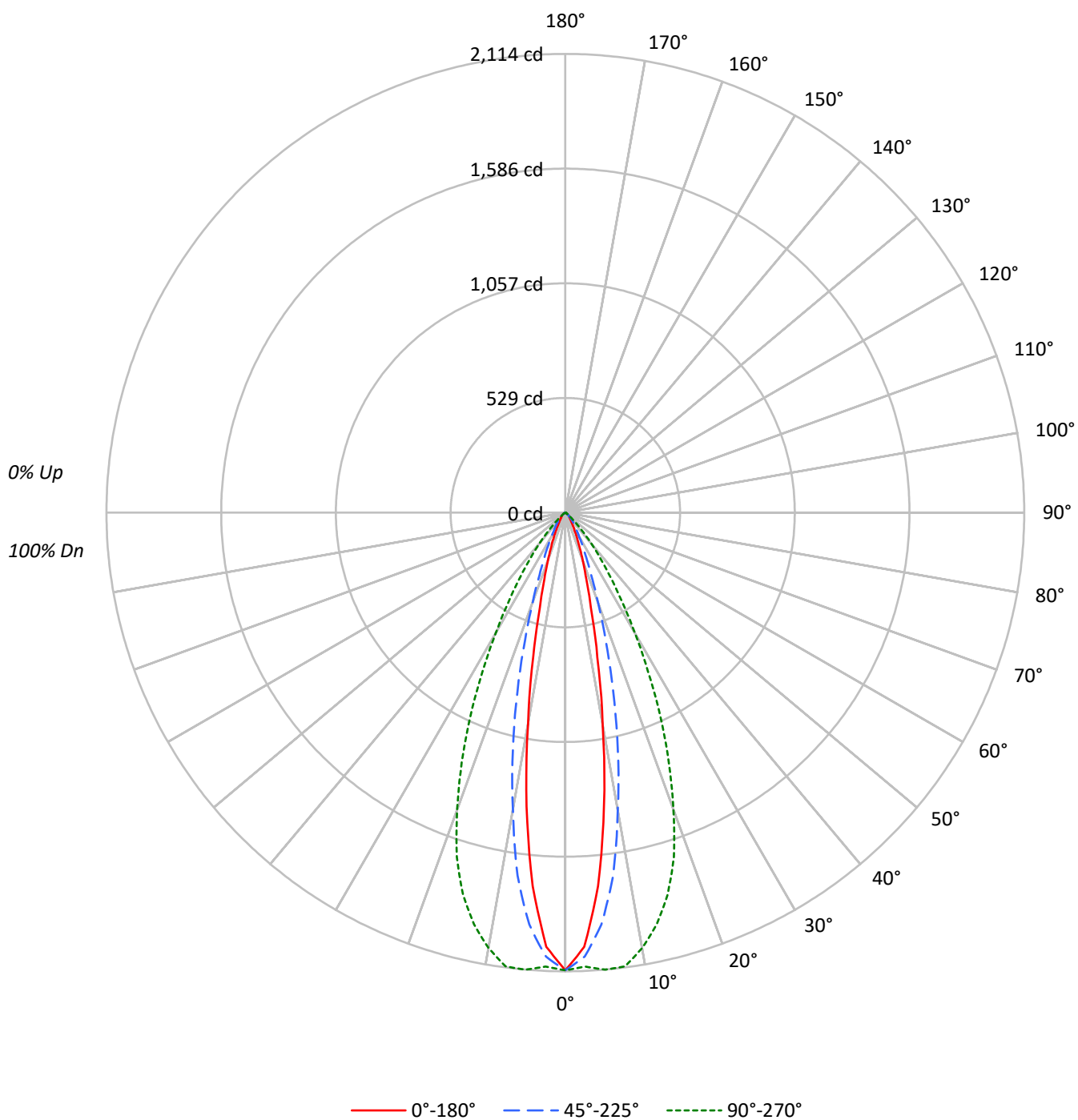
Lumens per Lamp: N/A
Luminaire Lumens: 758.1 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	1040451	1040451	1040451
5°	855389	943840	1047050
10°	496514	697454	1020832
15°	231326	434355	930258
20°	121911	229016	764646
25°	67501	124006	563962
30°	39593	72635	364712
35°	25416	48725	216099
40°	19836	32846	120049
45°	17164	19606	53375
50°	15504	13509	19572
55°	10580	9806	9118
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: 53375 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	22.1
10°-20°	274.9	36.3
20°-30°	183.4	24.2
30°-40°	82.7	10.9
40°-50°	30.3	4.0
50°-60°	10.6	1.4
60°-70°	5.0	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°	626.3	82.6
0°-40°	708.9	93.5
0°-60°	749.8	98.9
0°-90°	758.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	758.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	1727	1781	1906	2045	2114	141
15°	453	532	850	1437	1821	136
25°	124	144	228	621	1036	60
35°	42	48	81	175	359	28
45°	25	25	28	44	76	19
55°	12	11	11	10	11	12
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°	2108.9	2108.9	2108.9	2108.9	2108.9
2.5°	2002.5	2023.6	2048.2	2073.7	2094.0
5°	1727.2	1780.9	1905.8	2044.7	2114.2
7.5°	1365.8	1444.9	1687.7	1962.0	2108.9
10°	991.1	1092.3	1392.2	1818.7	2037.7
12.5°	681.6	776.5	1116.9	1637.5	1943.6
15°	452.9	532.1	850.4	1437.0	1821.3
17.5°	319.2	372.9	618.2	1218.0	1663.9
20°	232.2	268.2	436.2	1003.4	1456.4
22.5°	168.9	196.1	310.4	802.1	1246.2
25°	124.0	144.2	227.8	620.9	1036.0
27.5°	92.3	108.2	170.6	471.4	825.8
30°	69.5	82.7	127.5	347.4	640.2
32.5°	53.6	62.4	97.6	248.0	484.6
35°	42.2	47.5	80.9	175.0	358.8
37.5°	35.2	38.7	66.8	122.2	263.0
40°	30.8	33.4	51.0	87.1	186.4
42.5°	27.3	29.0	36.9	62.4	121.4
45°	24.6	24.6	28.1	44.0	76.5
47.5°	22.9	20.2	22.0	30.8	44.9
50°	20.2	16.7	17.6	21.1	25.5
52.5°	15.8	14.1	14.1	14.1	15.0
55°	12.3	11.4	11.4	9.7	10.6
57.5°	9.7	9.7	8.8	7.9	8.8
60°	7.9	7.9	7.0	6.2	7.0
62.5°	6.2	6.2	5.3	5.3	6.2
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)