

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: P1178795

Luminaire Tested: LDA2B108050R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178795
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: LDA2B108050R2050D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

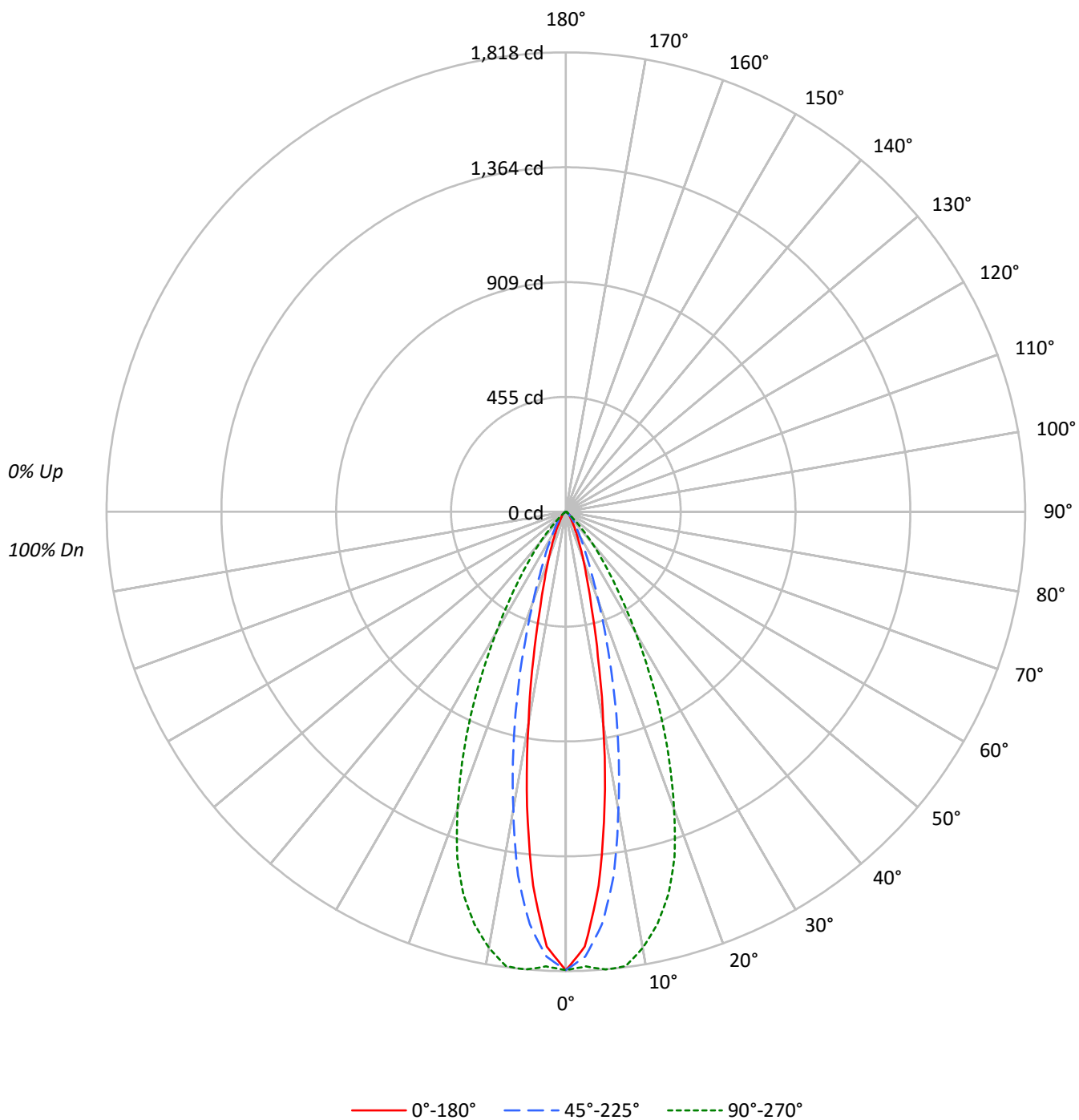
Lumens per Lamp: N/A
Luminaire Lumens: 652.1 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	894909	894909	894909
5°	735738	811808	900556
10°	427079	599865	878005
15°	198994	373625	800166
20°	104847	196989	657646
25°	58084	106641	485083
30°	34067	62494	313726
35°	21863	41919	185865
40°	17067	28273	103304
45°	14792	16885	45910
50°	13355	11590	16809
55°	9118	8429	7827
60°	6710	6019	6019
65°	5253	4436	5253
70°	4327	4327	4327
75°	4384	4384	4384
80°	4262	4262	4262
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 45910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	22.1
10°-20°	236.5	36.3
20°-30°	157.7	24.2
30°-40°	71.1	10.9
40°-50°	26.0	4.0
50°-60°	9.1	1.4
60°-70°	4.3	0.7
70°-80°	2.2	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°	538.7	82.6
0°-40°	609.8	93.5
0°-60°	644.9	98.9
0°-90°	652.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1486	1532	1639	1759	1818	121
15°	390	458	732	1236	1567	117
25°	107	124	196	534	891	51
35°	36	41	70	150	309	24
45°	21	21	24	38	66	17
55°	11	10	10	8	9	10
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°	1813.9	1813.9	1813.9	1813.9	1813.9
2.5°	1722.4	1740.5	1761.7	1783.7	1801.1
5°	1485.6	1531.8	1639.2	1758.7	1818.4
7.5°	1174.7	1242.8	1451.6	1687.6	1813.9
10°	852.5	939.5	1197.4	1564.3	1752.6
12.5°	586.2	667.9	960.7	1408.5	1671.7
15°	389.6	457.6	731.5	1236.0	1566.6
17.5°	274.6	320.7	531.8	1047.7	1431.2
20°	199.7	230.7	375.2	863.1	1252.6
22.5°	145.2	168.7	267.0	689.9	1071.9
25°	106.7	124.1	195.9	534.0	891.1
27.5°	79.4	93.0	146.7	405.4	710.3
30°	59.8	71.1	109.7	298.8	550.7
32.5°	46.1	53.7	84.0	213.3	416.8
35°	36.3	40.8	69.6	150.5	308.6
37.5°	30.3	33.3	57.5	105.1	226.2
40°	26.5	28.7	43.9	74.9	160.4
42.5°	23.4	25.0	31.8	53.7	104.4
45°	21.2	21.2	24.2	37.8	65.8
47.5°	19.7	17.4	18.9	26.5	38.6
50°	17.4	14.4	15.1	18.2	21.9
52.5°	13.6	12.1	12.1	12.1	12.9
55°	10.6	9.8	9.8	8.3	9.1
57.5°	8.3	8.3	7.6	6.8	7.6
60°	6.8	6.8	6.1	5.3	6.1
62.5°	5.3	5.3	4.5	4.5	5.3
65°	4.5	4.5	3.8	3.8	4.5
67.5°	3.8	3.8	3.8	3.0	3.8
70°	3.0	3.0	3.0	3.0	3.0
72.5°	2.3	2.3	3.0	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3
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°	0.8	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)