

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: P1178977

Luminaire Tested: LDA2B109040R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178977
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: LDA2B109040R2040D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

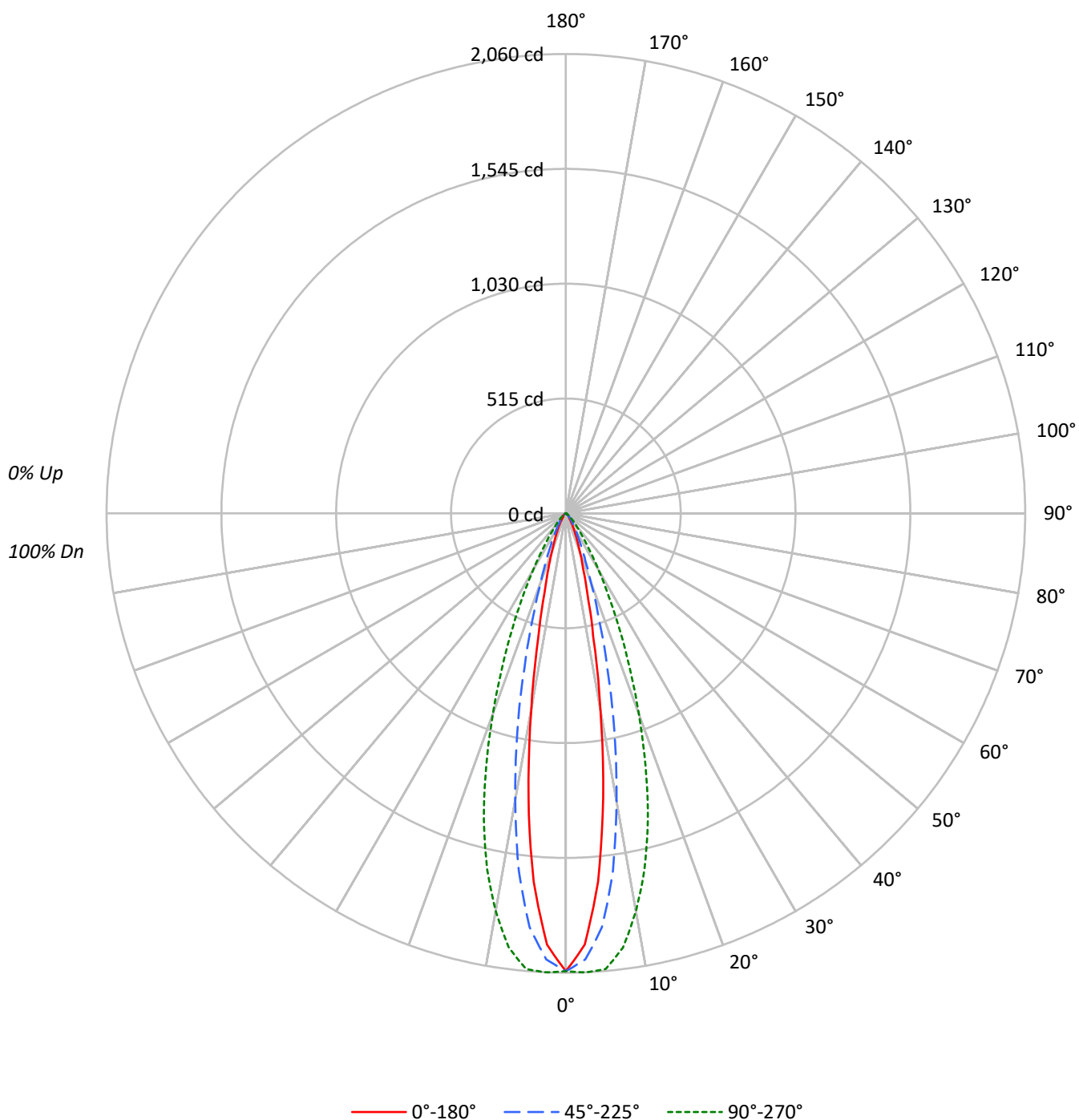
Lumens per Lamp: N/A
Luminaire Lumens: 578.6 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1012970	1012970	1012970
5°	821069	922198	1015602
10°	446417	654771	906911
15°	188830	367445	725951
20°	96395	172786	501924
25°	53348	88405	305933
30°	29908	49107	166861
35°	17286	29693	84982
40°	12881	22541	47079
45°	11303	15280	27909
50°	11974	10055	14890
55°	8602	6967	8085
60°	5526	4934	4934
65°	4319	4319	4319
70°	3606	3606	3606
75°	3622	3622	3622
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 27909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	27.6
10°-20°	226.2	39.1
20°-30°	116.5	20.1
30°-40°	42.9	7.4
40°-50°	18.8	3.3
50°-60°	8.3	1.4
60°-70°	3.6	0.6
70°-80°	1.8	0.3
80°-90°	0.5	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°	502.8	86.9
0°-40°	545.6	94.3
0°-60°	572.7	99.0
0°-90°	578.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2053	2053	2053	2053	2053	
5°	1658	1714	1862	1994	2051	133
15°	370	430	719	1200	1421	113
25°	98	110	162	373	562	47
35°	29	33	49	86	141	20
45°	16	19	22	26	40	13
55°	10	9	8	9	9	9
65°	4	4	4	3	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.2	2053.2	2053.2	2053.2	2053.2
2.5°	1935.8	1958.9	2002.0	2043.2	2060.1
5°	1657.9	1714.1	1862.1	1993.9	2050.7
7.5°	1283.9	1376.3	1616.1	1862.8	1963.9
10°	891.1	984.8	1307.0	1661.7	1810.3
12.5°	568.3	659.4	1007.2	1438.7	1631.7
15°	369.7	429.6	719.4	1200.2	1421.3
17.5°	256.7	299.1	489.6	947.3	1188.3
20°	183.6	213.6	329.1	722.5	956.0
22.5°	133.0	153.6	228.6	527.7	743.1
25°	98.0	109.9	162.4	372.8	562.0
27.5°	72.4	79.9	117.4	257.3	410.9
30°	52.5	58.7	86.2	176.7	292.9
32.5°	38.1	43.7	64.3	122.4	204.2
35°	28.7	33.1	49.3	86.2	141.1
37.5°	23.7	26.2	40.6	62.4	99.9
40°	20.0	22.5	35.0	46.2	73.1
42.5°	17.5	20.6	28.7	34.3	55.0
45°	16.2	18.7	21.9	26.2	40.0
47.5°	16.2	15.6	16.9	20.0	28.1
50°	15.6	13.1	13.1	15.6	19.4
52.5°	13.1	10.6	10.6	11.2	13.1
55°	10.0	8.7	8.1	8.7	9.4
57.5°	7.5	7.5	6.9	6.2	6.9
60°	5.6	5.6	5.0	5.0	5.0
62.5°	4.4	4.4	4.4	3.7	4.4
65°	3.7	3.7	3.7	3.1	3.7
67.5°	3.1	3.1	2.5	3.1	3.1
70°	2.5	2.5	2.5	2.5	2.5
72.5°	1.9	1.9	1.9	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)