

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: P1178870

Luminaire Tested: LDA2B109027R2050D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178870
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 2LBD1WMH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

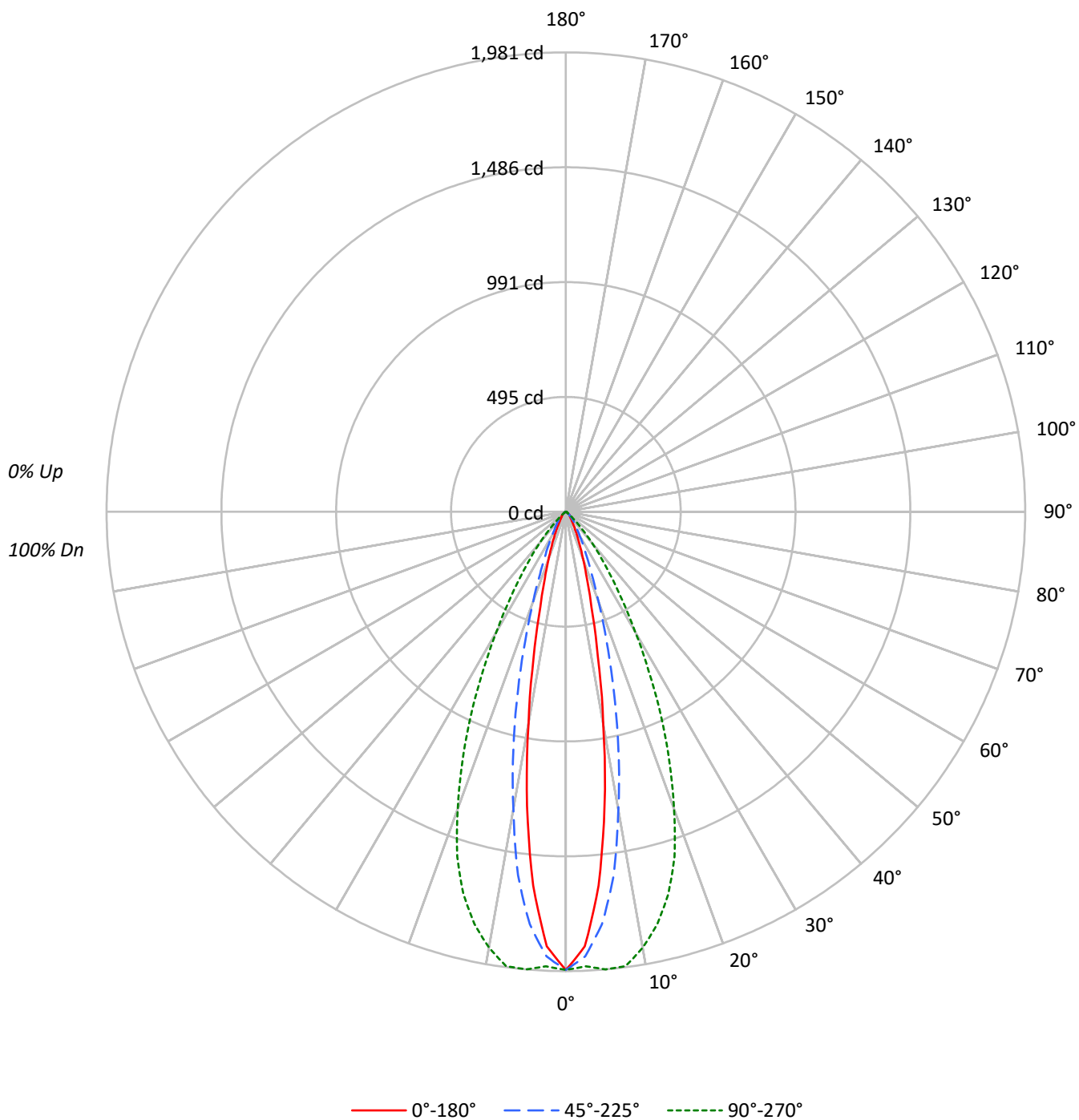
Lumens per Lamp: N/A
Luminaire Lumens: 710.2 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	974784	974784	974784
5°	801408	884262	980934
10°	465203	653419	956357
15°	216718	406927	871571
20°	114193	214578	716344
25°	63255	116167	528360
30°	37087	68077	341697
35°	23790	45653	202488
40°	18548	30785	112513
45°	16117	18420	50026
50°	14583	12664	18344
55°	9892	9204	8515
60°	7302	6512	6512
65°	5720	4786	5720
70°	4760	4760	4760
75°	4766	4766	4766
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 50026 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	22.2
10°-20°	257.6	36.3
20°-30°	171.8	24.2
30°-40°	77.5	10.9
40°-50°	28.4	4.0
50°-60°	9.9	1.4
60°-70°	4.6	0.7
70°-80°	2.4	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°	586.7	82.6
0°-40°	664.2	93.5
0°-60°	702.5	98.9
0°-90°	710.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1618	1668	1786	1916	1981	132
15°	424	498	797	1346	1706	127
25°	116	135	213	582	971	56
35°	40	44	76	164	336	26
45°	23	23	26	41	72	18
55°	12	11	11	9	10	11
65°	5	5	4	4	5	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°	1975.8	1975.8	1975.8	1975.8	1975.8
2.5°	1876.1	1895.9	1918.9	1942.8	1961.8
5°	1618.2	1668.5	1785.5	1915.6	1980.7
7.5°	1279.6	1353.7	1581.1	1838.2	1975.8
10°	928.6	1023.3	1304.3	1703.9	1909.0
12.5°	638.5	727.5	1046.4	1534.2	1820.9
15°	424.3	498.5	796.7	1346.3	1706.4
17.5°	299.1	349.3	579.2	1141.1	1558.9
20°	217.5	251.3	408.7	940.1	1364.4
22.5°	158.2	183.7	290.8	751.4	1167.5
25°	116.2	135.1	213.4	581.7	970.6
27.5°	86.5	101.3	159.8	441.6	773.7
30°	65.1	77.4	119.5	325.5	599.8
32.5°	50.3	58.5	91.5	232.3	454.0
35°	39.5	44.5	75.8	164.0	336.2
37.5°	33.0	36.3	62.6	114.5	246.4
40°	28.8	31.3	47.8	81.6	174.7
42.5°	25.5	27.2	34.6	58.5	113.7
45°	23.1	23.1	26.4	41.2	71.7
47.5°	21.4	19.0	20.6	28.8	42.0
50°	19.0	15.7	16.5	19.8	23.9
52.5°	14.8	13.2	13.2	13.2	14.0
55°	11.5	10.7	10.7	9.1	9.9
57.5°	9.1	9.1	8.2	7.4	8.2
60°	7.4	7.4	6.6	5.8	6.6
62.5°	5.8	5.8	4.9	4.9	5.8
65°	4.9	4.9	4.1	4.1	4.9
67.5°	4.1	4.1	4.1	3.3	4.1
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	3.3	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
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)