

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: P1179013

Luminaire Tested: LDA2B109050R2040D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179013
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: LDA2B109050R2040D010 2LBD1WMH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

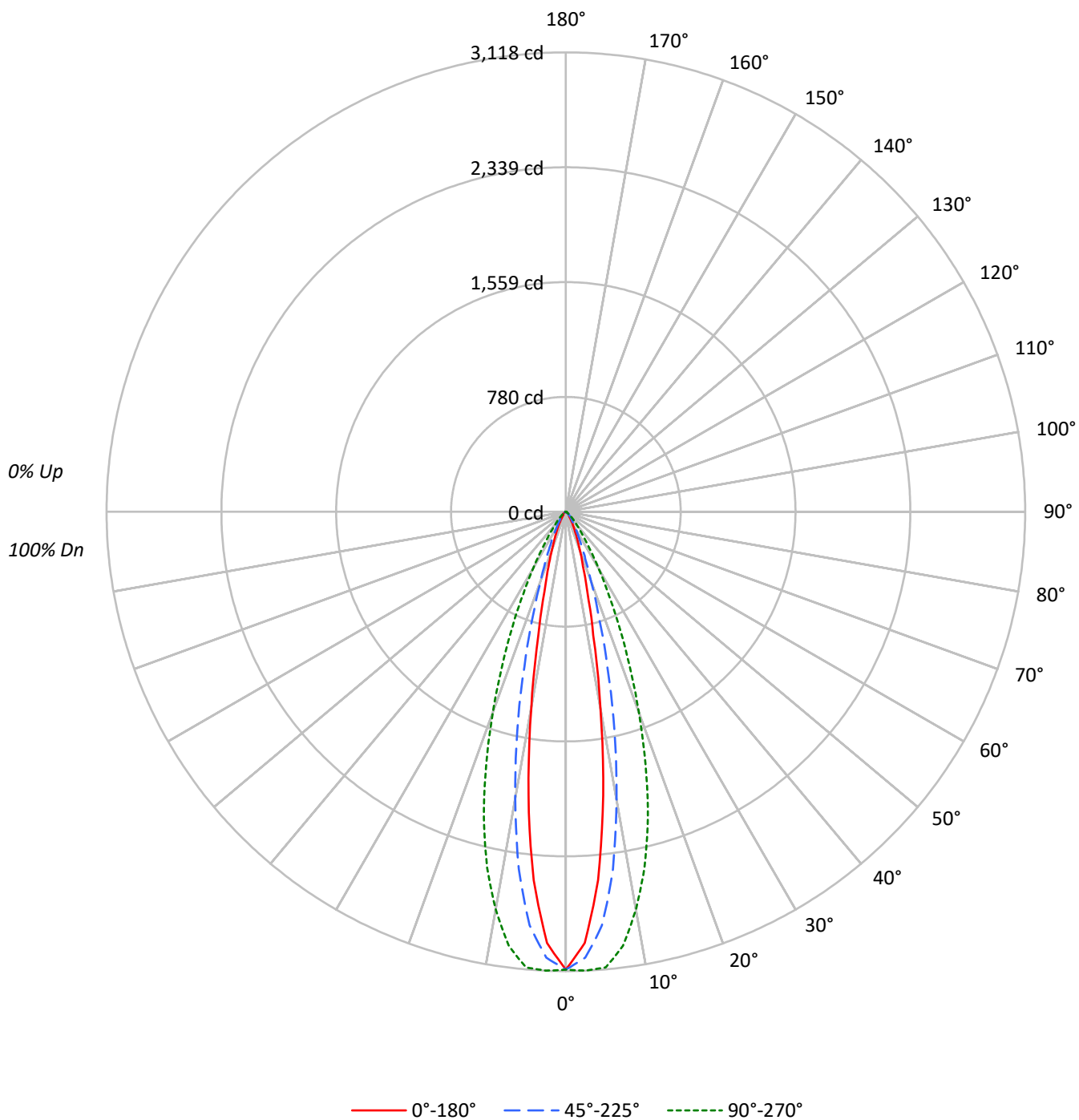
Lumens per Lamp: N/A
Luminaire Lumens: 875.7 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1533023	1533023	1533023
5°	1242623	1395654	1536997
10°	675612	990924	1372515
15°	285773	556071	1098606
20°	145852	261462	759658
25°	80784	133750	462982
30°	45233	74287	252484
35°	26199	44991	128648
40°	19450	34070	71231
45°	17164	23094	42212
50°	18114	15197	22489
55°	12988	10580	12214
60°	8387	7499	7499
65°	6654	6654	6654
70°	5481	5481	5481
75°	5337	5337	5337
80°	5398	5398	5398
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 42212 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	27.6
10°-20°	342.4	39.1
20°-30°	176.4	20.1
30°-40°	64.9	7.4
40°-50°	28.5	3.3
50°-60°	12.5	1.4
60°-70°	5.5	0.6
70°-80°	2.7	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°	760.9	86.9
0°-40°	825.8	94.3
0°-60°	866.8	99.0
0°-90°	875.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	875.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3107	3107	3107	3107	3107	
5°	2509	2594	2818	3018	3104	202
15°	560	650	1089	1816	2151	171
25°	148	166	246	564	850	71
35°	44	50	75	130	214	30
45°	25	28	33	40	60	20
55°	15	13	12	13	14	14
65°	6	6	6	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°	3107.3	3107.3	3107.3	3107.3	3107.3
2.5°	2929.6	2964.6	3029.8	3092.2	3117.7
5°	2509.1	2594.2	2818.1	3017.5	3103.5
7.5°	1943.0	2082.9	2445.8	2819.1	2972.2
10°	1348.6	1490.3	1978.0	2514.8	2739.7
12.5°	860.0	998.0	1524.4	2177.4	2469.4
15°	559.5	650.2	1088.7	1816.4	2150.9
17.5°	388.4	452.7	740.9	1433.6	1798.4
20°	277.8	323.2	498.0	1093.4	1446.9
22.5°	201.3	232.5	345.9	798.6	1124.6
25°	148.4	166.3	245.7	564.2	850.5
27.5°	109.6	121.0	177.7	389.4	621.8
30°	79.4	88.8	130.4	267.4	443.2
32.5°	57.6	66.2	97.3	185.2	309.0
35°	43.5	50.1	74.7	130.4	213.6
37.5°	35.9	39.7	61.4	94.5	151.2
40°	30.2	34.0	52.9	69.9	110.6
42.5°	26.5	31.2	43.5	52.0	83.2
45°	24.6	28.4	33.1	39.7	60.5
47.5°	24.6	23.6	25.5	30.2	42.5
50°	23.6	19.8	19.8	23.6	29.3
52.5°	19.8	16.1	16.1	17.0	19.8
55°	15.1	13.2	12.3	13.2	14.2
57.5°	11.3	11.3	10.4	9.5	10.4
60°	8.5	8.5	7.6	7.6	7.6
62.5°	6.6	6.6	6.6	5.7	6.6
65°	5.7	5.7	5.7	4.7	5.7
67.5°	4.7	4.7	3.8	4.7	4.7
70°	3.8	3.8	3.8	3.8	3.8
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.8	2.8	2.8	2.8	2.8
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°	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)