

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: P1178820

Luminaire Tested: LDA2B109024R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178820
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: LDA2B109024R2040D010 2LBDC1MMS
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

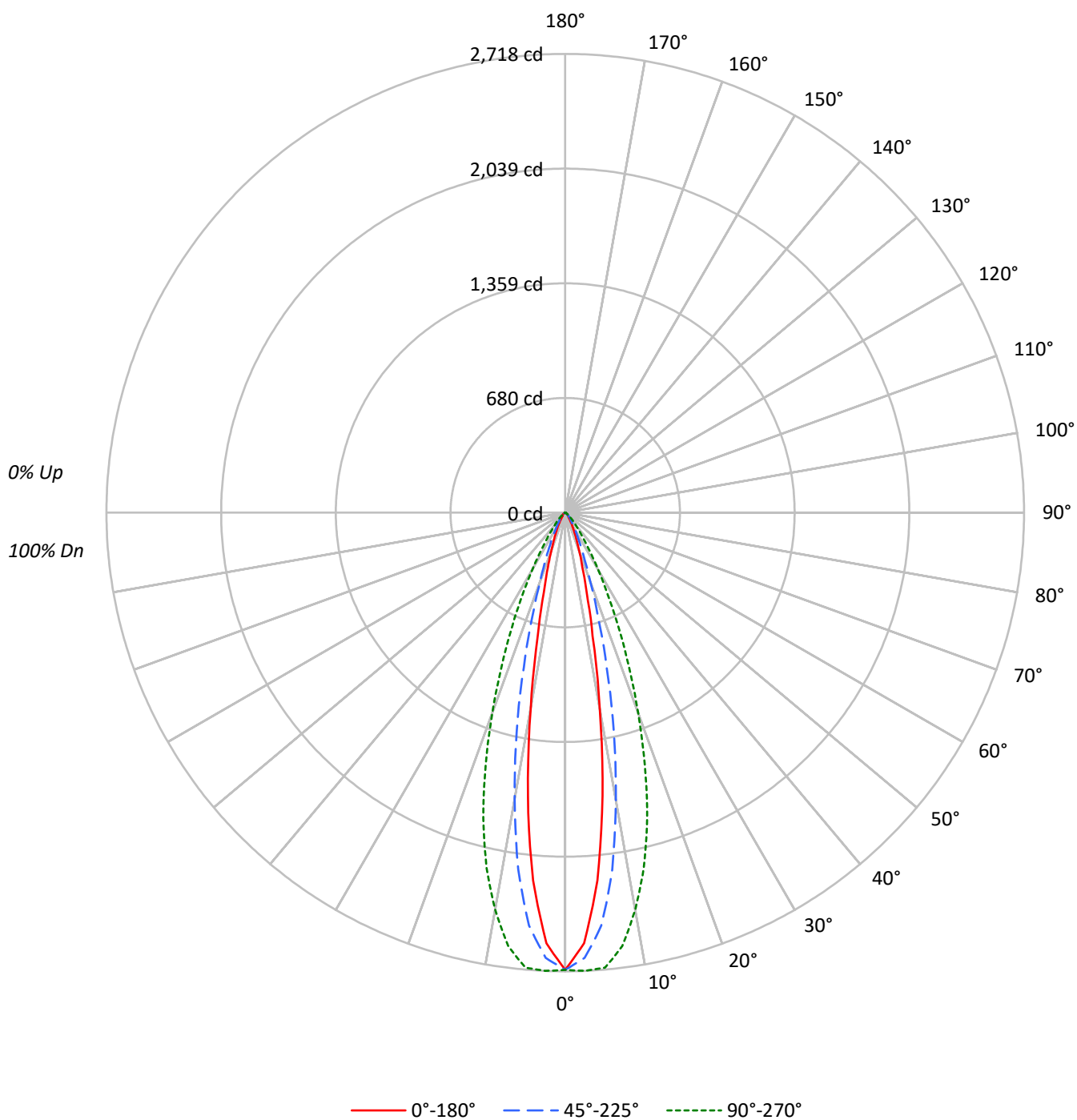
Lumens per Lamp: N/A
Luminaire Lumens: 763.4 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1178820

CATALOG NUMBER: LDA2B109024R2040D010 2LBDC1MMS

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°	1336369	1336369	1336369
5°	1083203	1216622	1339839
10°	588943	863777	1196423
15°	249100	484717	957686
20°	127161	227913	662161
25°	70386	116603	403592
30°	39422	64773	220126
35°	22827	39209	112145
40°	17003	29690	62085
45°	14931	20094	36770
50°	15811	13278	19572
55°	11354	9204	10666
60°	7302	6512	6512
65°	5720	5720	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: 36770 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	27.6
10°-20°	298.4	39.1
20°-30°	153.7	20.1
30°-40°	56.6	7.4
40°-50°	24.9	3.3
50°-60°	10.9	1.4
60°-70°	4.8	0.6
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°	663.2	86.9
0°-40°	719.8	94.3
0°-60°	755.6	99.0
0°-90°	763.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	763.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2709	2709	2709	2709	2709	
5°	2187	2261	2457	2630	2705	176
15°	488	567	949	1583	1875	149
25°	129	145	214	492	741	62
35°	38	44	65	114	186	26
45°	21	25	29	35	53	17
55°	13	12	11	12	12	12
65°	5	5	5	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°	2708.7	2708.7	2708.7	2708.7	2708.7
2.5°	2553.8	2584.3	2641.1	2695.5	2717.7
5°	2187.2	2261.3	2456.6	2630.4	2705.4
7.5°	1693.7	1815.7	2132.0	2457.4	2590.9
10°	1175.6	1299.1	1724.2	2192.1	2388.2
12.5°	749.7	869.9	1328.8	1898.0	2152.6
15°	487.7	566.8	949.0	1583.4	1875.0
17.5°	338.6	394.6	645.9	1249.7	1567.7
20°	242.2	281.7	434.1	953.1	1261.2
22.5°	175.5	202.7	301.5	696.1	980.3
25°	129.3	145.0	214.2	491.8	741.4
27.5°	95.6	105.4	154.9	339.4	542.1
30°	69.2	77.4	113.7	233.1	386.4
32.5°	50.3	57.7	84.9	161.5	269.4
35°	37.9	43.7	65.1	113.7	186.2
37.5°	31.3	34.6	53.5	82.4	131.8
40°	26.4	29.7	46.1	61.0	96.4
42.5°	23.1	27.2	37.9	45.3	72.5
45°	21.4	24.7	28.8	34.6	52.7
47.5°	21.4	20.6	22.2	26.4	37.1
50°	20.6	17.3	17.3	20.6	25.5
52.5°	17.3	14.0	14.0	14.8	17.3
55°	13.2	11.5	10.7	11.5	12.4
57.5°	9.9	9.9	9.1	8.2	9.1
60°	7.4	7.4	6.6	6.6	6.6
62.5°	5.8	5.8	5.8	4.9	5.8
65°	4.9	4.9	4.9	4.1	4.9
67.5°	4.1	4.1	3.3	4.1	4.1
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	2.5	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)