

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: P1178967

Luminaire Tested: LDA2B109040R2040D010 2LBD1H

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178967
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 2LBD1H
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

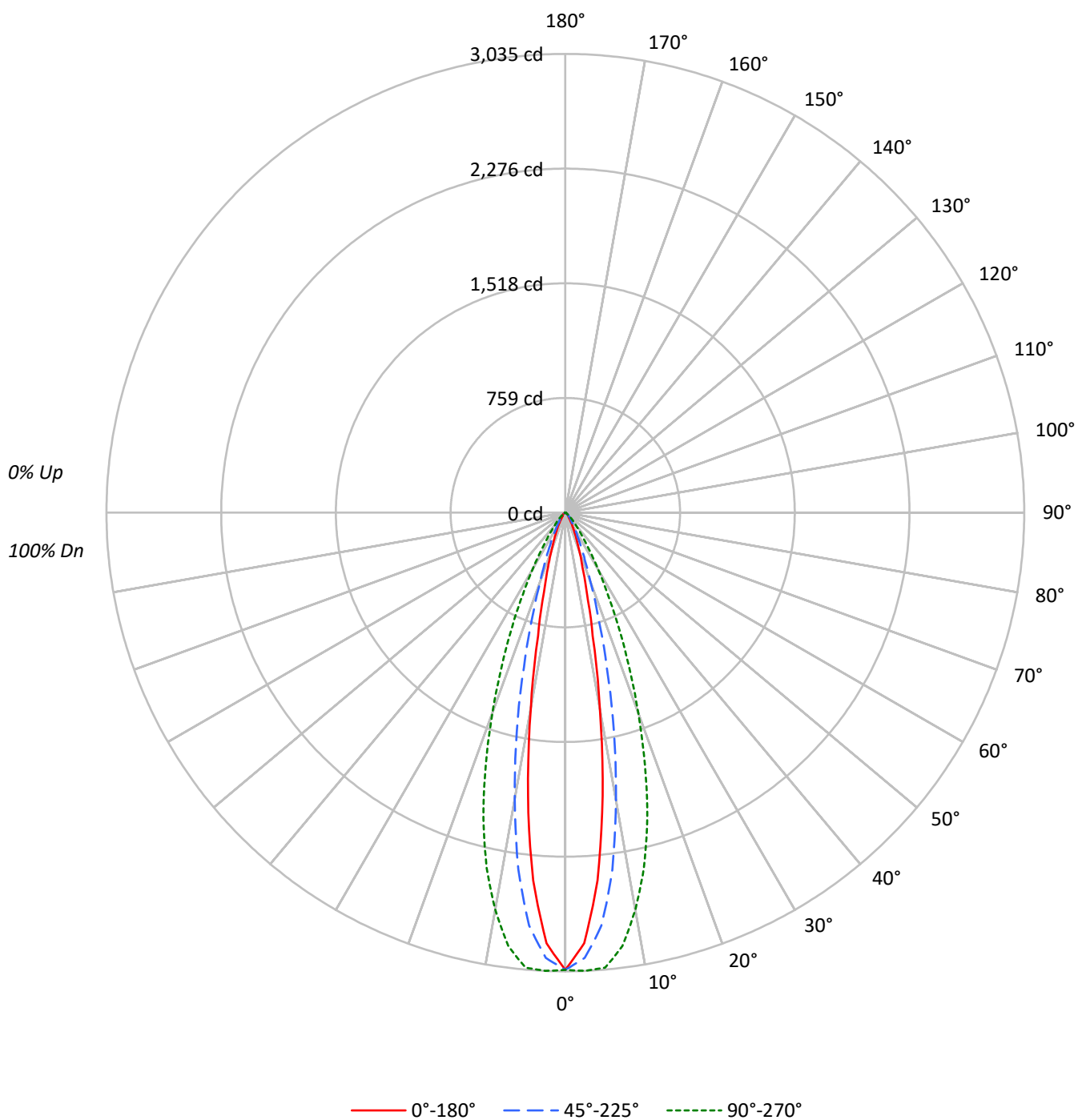
Lumens per Lamp: N/A
Luminaire Lumens: 852.4 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	95	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	94	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°	1492222	1492222	1492222
5°	1209540	1358510	1496090
10°	657627	964523	1335944
15°	278163	541258	1069339
20°	141967	254532	739392
25°	78606	130212	450679
30°	44037	72293	245762
35°	25477	43786	125215
40°	18935	33168	69298
45°	16675	22467	41096
50°	17653	14813	21875
55°	12644	10322	11870
60°	8190	7302	7302
65°	6421	6421	6421
70°	5337	5337	5337
75°	5337	5337	5337
80°	5114	5114	5114
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 41096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	27.6
10°-20°	333.3	39.1
20°-30°	171.7	20.1
30°-40°	63.2	7.4
40°-50°	27.7	3.3
50°-60°	12.2	1.4
60°-70°	5.3	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°	740.6	86.9
0°-40°	803.8	94.3
0°-60°	843.7	99.0
0°-90°	852.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3025	3025	3025	3025	3025	
5°	2442	2525	2743	2937	3021	197
15°	545	633	1060	1768	2094	166
25°	144	162	239	549	828	69
35°	42	49	73	127	208	29
45°	24	28	32	39	59	19
55°	15	13	12	13	14	13
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°	3024.6	3024.6	3024.6	3024.6	3024.6
2.5°	2851.6	2885.7	2949.1	3009.8	3034.7
5°	2442.3	2525.1	2743.1	2937.2	3020.9
7.5°	1891.3	2027.4	2380.6	2744.0	2893.0
10°	1312.7	1450.6	1925.3	2447.8	2666.7
12.5°	837.1	971.4	1483.8	2119.4	2403.6
15°	544.6	632.9	1059.7	1768.0	2093.6
17.5°	378.1	440.6	721.2	1395.5	1750.5
20°	270.4	314.6	484.8	1064.3	1408.3
22.5°	195.9	226.3	336.7	777.3	1094.7
25°	144.4	161.9	239.2	549.2	827.9
27.5°	106.7	117.7	172.9	379.0	605.3
30°	77.3	86.5	126.9	260.3	431.4
32.5°	56.1	64.4	94.7	180.3	300.8
35°	42.3	48.8	72.7	126.9	207.9
37.5°	35.0	38.6	59.8	92.0	147.2
40°	29.4	33.1	51.5	68.1	107.6
42.5°	25.8	30.4	42.3	50.6	80.9
45°	23.9	27.6	32.2	38.6	58.9
47.5°	23.9	23.0	24.8	29.4	41.4
50°	23.0	19.3	19.3	23.0	28.5
52.5°	19.3	15.6	15.6	16.6	19.3
55°	14.7	12.9	12.0	12.9	13.8
57.5°	11.0	11.0	10.1	9.2	10.1
60°	8.3	8.3	7.4	7.4	7.4
62.5°	6.4	6.4	6.4	5.5	6.4
65°	5.5	5.5	5.5	4.6	5.5
67.5°	4.6	4.6	3.7	4.6	4.6
70°	3.7	3.7	3.7	3.7	3.7
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°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
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)