

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: P1178935

Luminaire Tested: LDA2B109035R2040D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178935
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: LDA2B109035R2040D010 2LBD1WMH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

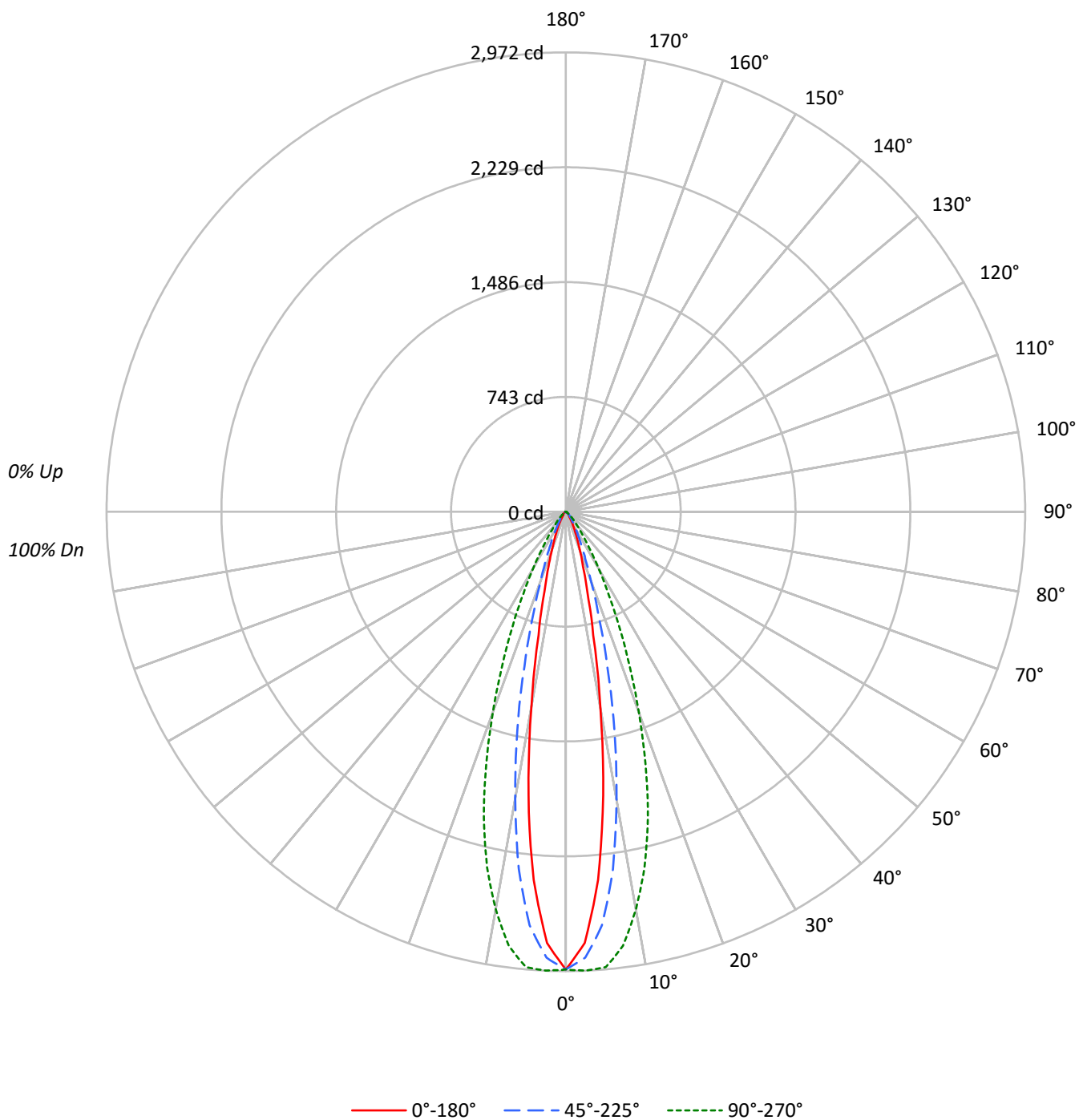
Lumens per Lamp: N/A
Luminaire Lumens: 834.7 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	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°	1461140	1461140	1461140
5°	1184332	1330232	1464939
10°	643900	944434	1308140
15°	272340	529970	1047121
20°	139027	249229	724009
25°	76973	127490	441316
30°	43125	70812	240635
35°	24935	42883	122625
40°	18548	32460	67882
45°	16327	21978	40189
50°	17270	14506	21414
55°	12386	10064	11612
60°	7992	7104	7104
65°	6304	6304	6304
70°	5193	5193	5193
75°	5147	5147	5147
80°	5114	5114	5114
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 40189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	27.6
10°-20°	326.3	39.1
20°-30°	168.1	20.1
30°-40°	61.9	7.4
40°-50°	27.2	3.3
50°-60°	11.9	1.4
60°-70°	5.2	0.6
70°-80°	2.6	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°	725.2	86.9
0°-40°	787.0	94.3
0°-60°	826.1	99.0
0°-90°	834.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2962	2962	2962	2962	2962	
5°	2391	2472	2686	2876	2958	192
15°	533	620	1038	1731	2050	163
25°	141	158	234	538	811	68
35°	41	48	71	124	204	28
45°	23	27	32	38	58	19
55°	14	13	12	13	14	13
65°	5	5	5	4	5	5
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°	2961.6	2961.6	2961.6	2961.6	2961.6
2.5°	2792.3	2825.6	2887.7	2947.2	2971.5
5°	2391.4	2472.5	2686.0	2876.0	2958.0
7.5°	1851.9	1985.2	2331.1	2686.9	2832.8
10°	1285.3	1420.4	1885.2	2396.8	2611.2
12.5°	819.7	951.2	1452.9	2075.3	2353.6
15°	533.2	619.7	1037.6	1731.2	2050.1
17.5°	370.2	431.4	706.2	1366.4	1714.1
20°	264.8	308.0	474.7	1042.1	1379.0
22.5°	191.9	221.6	329.7	761.1	1071.9
25°	141.4	158.5	234.2	537.7	810.7
27.5°	104.5	115.3	169.3	371.1	592.7
30°	75.7	84.7	124.3	254.9	422.4
32.5°	54.9	63.1	92.8	176.5	294.5
35°	41.4	47.7	71.2	124.3	203.6
37.5°	34.2	37.8	58.5	90.1	144.1
40°	28.8	32.4	50.4	66.7	105.4
42.5°	25.2	29.7	41.4	49.5	79.3
45°	23.4	27.0	31.5	37.8	57.6
47.5°	23.4	22.5	24.3	28.8	40.5
50°	22.5	18.9	18.9	22.5	27.9
52.5°	18.9	15.3	15.3	16.2	18.9
55°	14.4	12.6	11.7	12.6	13.5
57.5°	10.8	10.8	9.9	9.0	9.9
60°	8.1	8.1	7.2	7.2	7.2
62.5°	6.3	6.3	6.3	5.4	6.3
65°	5.4	5.4	5.4	4.5	5.4
67.5°	4.5	4.5	3.6	4.5	4.5
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.7	2.7	2.7	2.7	2.7
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)