

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: P1180018

Luminaire Tested: LDA2B209050R2040D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1180018
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: LDA2B209050R2040D010 2LBD1MW
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

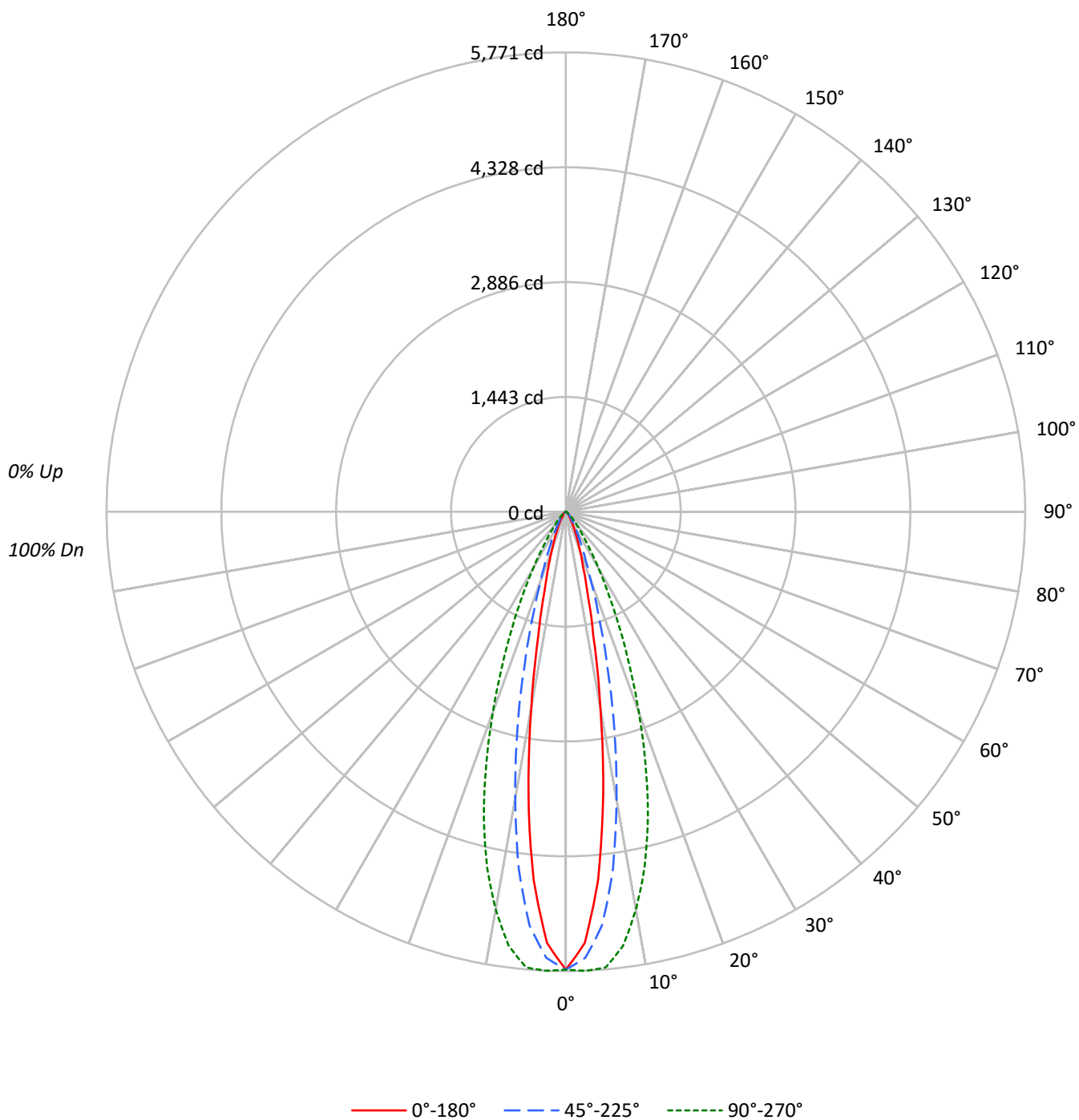
Lumens per Lamp: N/A
Luminaire Lumens: 1621.1 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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: P1180018

CATALOG NUMBER: LDA2B209050R2040D010 2LBD1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1180018

CATALOG NUMBER: LDA2B209050R2040D010 2LBD1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2837866	2837866	2837866
5°	2300271	2583601	2845240
10°	1250628	1834312	2540733
15°	529000	1029346	2033716
20°	270020	484020	1406226
25°	149537	247577	857102
30°	83744	137522	467427
35°	48484	83236	238143
40°	36066	63116	131835
45°	31746	42700	78145
50°	33541	28169	41600
55°	24084	19525	22536
60°	15492	13814	13814
65°	12258	12258	12258
70°	10097	10097	10097
75°	9912	9912	9912
80°	9944	9944	9944
85°	9623	9623	9623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 78145 cd/sqm

TEST NUMBER: P1180018

CATALOG NUMBER: LDA2B209050R2040D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	27.6
10°-20°	633.8	39.1
20°-30°	326.5	20.1
30°-40°	120.1	7.4
40°-50°	52.8	3.3
50°-60°	23.1	1.4
60°-70°	10.1	0.6
70°-80°	5.1	0.3
80°-90°	1.4	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°	1408.5	86.9
0°-40°	1528.6	94.3
0°-60°	1604.5	99.0
0°-90°	1621.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1621.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5752	5752	5752	5752	5752	
5°	4645	4802	5217	5586	5745	374
15°	1036	1204	2015	3362	3982	317
25°	275	308	455	1044	1574	132
35°	80	93	138	241	395	55
45°	46	52	61	74	112	37
55°	28	24	23	24	26	26
65°	10	10	10	9	10	11
75°	5	5	5	5	5	5
85°	2	2	2	2	2	1
90°	0	0	0	0	0	

TEST NUMBER: P1180018

CATALOG NUMBER: LDA2B209050R2040D010 2LBD1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5752.1	5752.1	5752.1	5752.1	5752.1
2.5°	5423.2	5487.9	5608.6	5724.1	5771.3
5°	4644.7	4802.1	5216.8	5585.9	5745.1
7.5°	3596.8	3855.7	4527.5	5218.5	5501.9
10°	2496.4	2758.8	3661.5	4655.2	5071.6
12.5°	1592.0	1847.4	2821.8	4030.6	4571.2
15°	1035.7	1203.6	2015.3	3362.4	3981.7
17.5°	719.0	838.0	1371.5	2653.9	3329.1
20°	514.3	598.3	921.9	2024.1	2678.4
22.5°	372.6	430.4	640.3	1478.3	2081.8
25°	274.7	307.9	454.8	1044.4	1574.5
27.5°	202.9	223.9	328.9	720.8	1151.1
30°	147.0	164.4	241.4	495.1	820.5
32.5°	106.7	122.5	180.2	342.9	572.1
35°	80.5	92.7	138.2	241.4	395.4
37.5°	66.5	73.5	113.7	174.9	279.9
40°	56.0	63.0	98.0	129.5	204.7
42.5°	49.0	57.7	80.5	96.2	153.9
45°	45.5	52.5	61.2	73.5	112.0
47.5°	45.5	43.7	47.2	56.0	78.7
50°	43.7	36.7	36.7	43.7	54.2
52.5°	36.7	29.7	29.7	31.5	36.7
55°	28.0	24.5	22.7	24.5	26.2
57.5°	21.0	21.0	19.2	17.5	19.2
60°	15.7	15.7	14.0	14.0	14.0
62.5°	12.2	12.2	12.2	10.5	12.2
65°	10.5	10.5	10.5	8.7	10.5
67.5°	8.7	8.7	7.0	8.7	8.7
70°	7.0	7.0	7.0	7.0	7.0
72.5°	5.2	5.2	5.2	5.2	5.2
75°	5.2	5.2	5.2	5.2	5.2
77.5°	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5
82.5°	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7
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)