

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: P1180024

Luminaire Tested: LDA2B209050R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1180024
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 2LBDC1MW
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

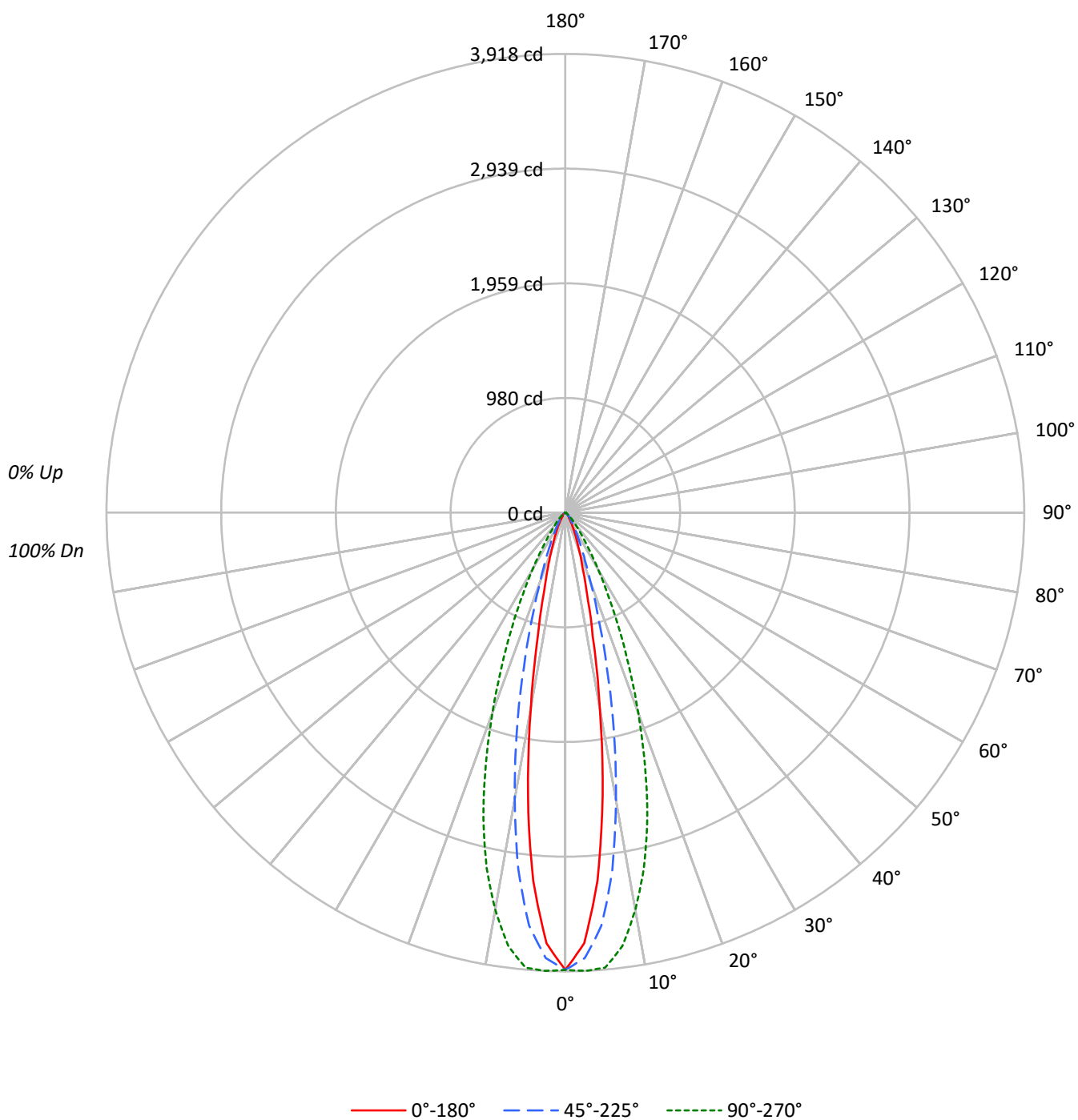
Lumens per Lamp: N/A
Luminaire Lumens: 1100.6 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1180024

CATALOG NUMBER: LDA2B209050R2040D010 2LBDC1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1180024

CATALOG NUMBER: LDA2B209050R2040D010 2LBDC1MW

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	99	99
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	94	93
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	90	89
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87	86	85
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	82	81
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79	78	77
6	94	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76	75	74
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73	72	71
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70	69	68
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	67	66
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1926479	1926479	1926479
5°	1561512	1753865	1931461
10°	848998	1245218	1724749
15°	359068	698779	1380549
20°	183286	328613	954600
25°	101524	168100	581817
30°	56855	93371	317315
35°	32885	56494	161653
40°	24473	42829	89457
45°	21560	29025	53027
50°	22796	19112	28245
55°	16343	13246	15311
60°	10558	9374	9374
65°	8288	8288	8288
70°	6924	6924	6924
75°	6862	6862	6862
80°	6819	6819	6819
85°	6793	6793	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 53027 cd/sqm

TEST NUMBER: P1180024

CATALOG NUMBER: LDA2B209050R2040D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.3	27.6
10°-20°	430.2	39.1
20°-30°	221.6	20.1
30°-40°	81.6	7.4
40°-50°	35.8	3.3
50°-60°	15.7	1.4
60°-70°	6.9	0.6
70°-80°	3.5	0.3
80°-90°	1.0	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°	956.1	86.9
0°-40°	1037.7	94.3
0°-60°	1089.2	99.0
0°-90°	1100.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3905	3905	3905	3905	3905	
5°	3153	3260	3541	3792	3900	254
15°	703	817	1368	2282	2703	215
25°	186	209	309	709	1069	89
35°	55	63	94	164	268	37
45°	31	36	42	50	76	25
55°	19	17	15	17	18	17
65°	7	7	7	6	7	7
75°	4	4	4	4	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1180024

CATALOG NUMBER: LDA2B209050R2040D010 2LBDC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3904.8	3904.8	3904.8	3904.8	3904.8
2.5°	3681.5	3725.4	3807.4	3885.8	3917.8
5°	3153.0	3259.9	3541.4	3791.9	3900.0
7.5°	2441.7	2617.4	3073.5	3542.6	3734.9
10°	1694.7	1872.8	2485.6	3160.2	3442.8
12.5°	1080.7	1254.1	1915.6	2736.2	3103.1
15°	703.0	817.1	1368.1	2282.5	2702.9
17.5°	488.1	568.9	931.1	1801.6	2260.0
20°	349.1	406.2	625.9	1374.0	1818.2
22.5°	253.0	292.1	434.7	1003.5	1413.2
25°	186.5	209.0	308.8	709.0	1068.8
27.5°	137.8	152.0	223.3	489.3	781.4
30°	99.8	111.6	163.9	336.1	557.0
32.5°	72.4	83.1	122.3	232.8	388.3
35°	54.6	62.9	93.8	163.9	268.4
37.5°	45.1	49.9	77.2	118.8	190.0
40°	38.0	42.8	66.5	87.9	138.9
42.5°	33.3	39.2	54.6	65.3	104.5
45°	30.9	35.6	41.6	49.9	76.0
47.5°	30.9	29.7	32.1	38.0	53.4
50°	29.7	24.9	24.9	29.7	36.8
52.5°	24.9	20.2	20.2	21.4	24.9
55°	19.0	16.6	15.4	16.6	17.8
57.5°	14.3	14.3	13.1	11.9	13.1
60°	10.7	10.7	9.5	9.5	9.5
62.5°	8.3	8.3	8.3	7.1	8.3
65°	7.1	7.1	7.1	5.9	7.1
67.5°	5.9	5.9	4.8	5.9	5.9
70°	4.8	4.8	4.8	4.8	4.8
72.5°	3.6	3.6	3.6	3.6	3.6
75°	3.6	3.6	3.6	3.6	3.6
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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)