

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: P1180031

Luminaire Tested: LDA2B209050R2050D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1180031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B209050R2050D010 2LBD1MW
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

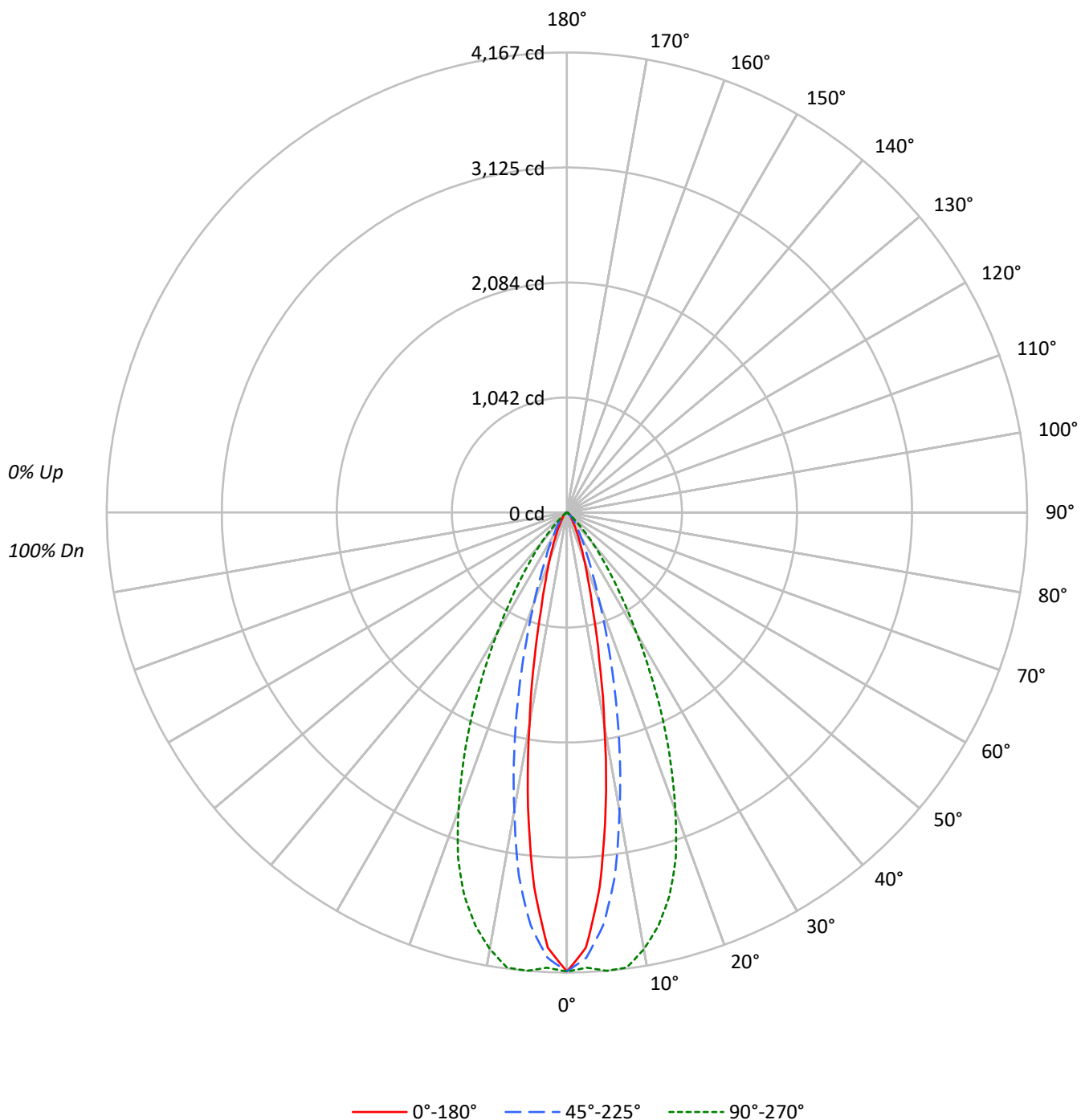
Lumens per Lamp: N/A
Luminaire Lumens: 1494.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1180031

CATALOG NUMBER: LDA2B209050R2050D010 2LBD1MW

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	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2050560	2050560	2050560
5°	1685868	1860145	2063543
10°	978600	1374519	2011856
15°	455909	856094	1833445
20°	240251	451364	1506978
25°	133043	244365	1111483
30°	77990	143162	718829
35°	50110	96064	425935
40°	39093	64726	236620
45°	33839	38723	105216
50°	30625	26633	38607
55°	20902	19353	17891
60°	15393	13715	13715
65°	12141	10156	12141
70°	9953	9953	9953
75°	9912	9912	9912
80°	9944	9944	9944
85°	9623	9623	9623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 105216 cd/sqm

TEST NUMBER: P1180031

CATALOG NUMBER: LDA2B209050R2050D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.9	22.2
10°-20°	541.9	36.3
20°-30°	361.5	24.2
30°-40°	162.9	10.9
40°-50°	59.7	4.0
50°-60°	20.9	1.4
60°-70°	9.8	0.7
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°	1234.3	82.6
0°-40°	1397.2	93.5
0°-60°	1477.7	98.9
0°-90°	1494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4156	4156	4156	4156	4156	
5°	3404	3510	3756	4030	4167	278
15°	893	1049	1676	2832	3590	267
25°	244	284	449	1224	2042	118
35°	83	94	160	345	707	55
45°	48	48	56	87	151	38
55°	24	22	22	19	21	23
65°	10	10	9	9	10	10
75°	5	5	5	5	5	5
85°	2	2	2	2	2	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4156.3	4156.3	4156.3	4156.3	4156.3
2.5°	3946.6	3988.2	4036.7	4087.0	4126.9
5°	3404.1	3509.8	3756.0	4029.8	4166.7
7.5°	2691.7	2847.7	3326.1	3866.9	4156.3
10°	1953.4	2152.7	2743.7	3584.4	4015.9
12.5°	1343.3	1530.5	2201.2	3227.3	3830.5
15°	892.6	1048.6	1676.1	2832.1	3589.6
17.5°	629.2	734.9	1218.5	2400.6	3279.3
20°	457.6	528.6	859.7	1977.6	2870.3
22.5°	332.8	386.5	611.8	1580.7	2456.0
25°	244.4	284.3	448.9	1223.7	2041.8
27.5°	182.0	213.2	336.3	929.0	1627.5
30°	136.9	162.9	251.3	684.6	1261.8
32.5°	105.7	123.1	192.4	488.8	955.0
35°	83.2	93.6	159.5	344.9	707.2
37.5°	69.3	76.3	131.7	240.9	518.2
40°	60.7	65.9	100.5	171.6	367.4
42.5°	53.7	57.2	72.8	123.1	239.2
45°	48.5	48.5	55.5	86.7	150.8
47.5°	45.1	39.9	43.3	60.7	88.4
50°	39.9	32.9	34.7	41.6	50.3
52.5°	31.2	27.7	27.7	27.7	29.5
55°	24.3	22.5	22.5	19.1	20.8
57.5°	19.1	19.1	17.3	15.6	17.3
60°	15.6	15.6	13.9	12.1	13.9
62.5°	12.1	12.1	10.4	10.4	12.1
65°	10.4	10.4	8.7	8.7	10.4
67.5°	8.7	8.7	8.7	6.9	8.7
70°	6.9	6.9	6.9	6.9	6.9
72.5°	5.2	5.2	6.9	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)