

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: P1179839

Luminaire Tested: LDA2B209024R2050D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179839
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: LDA2B209024R2050D010 2LBD1WMH
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

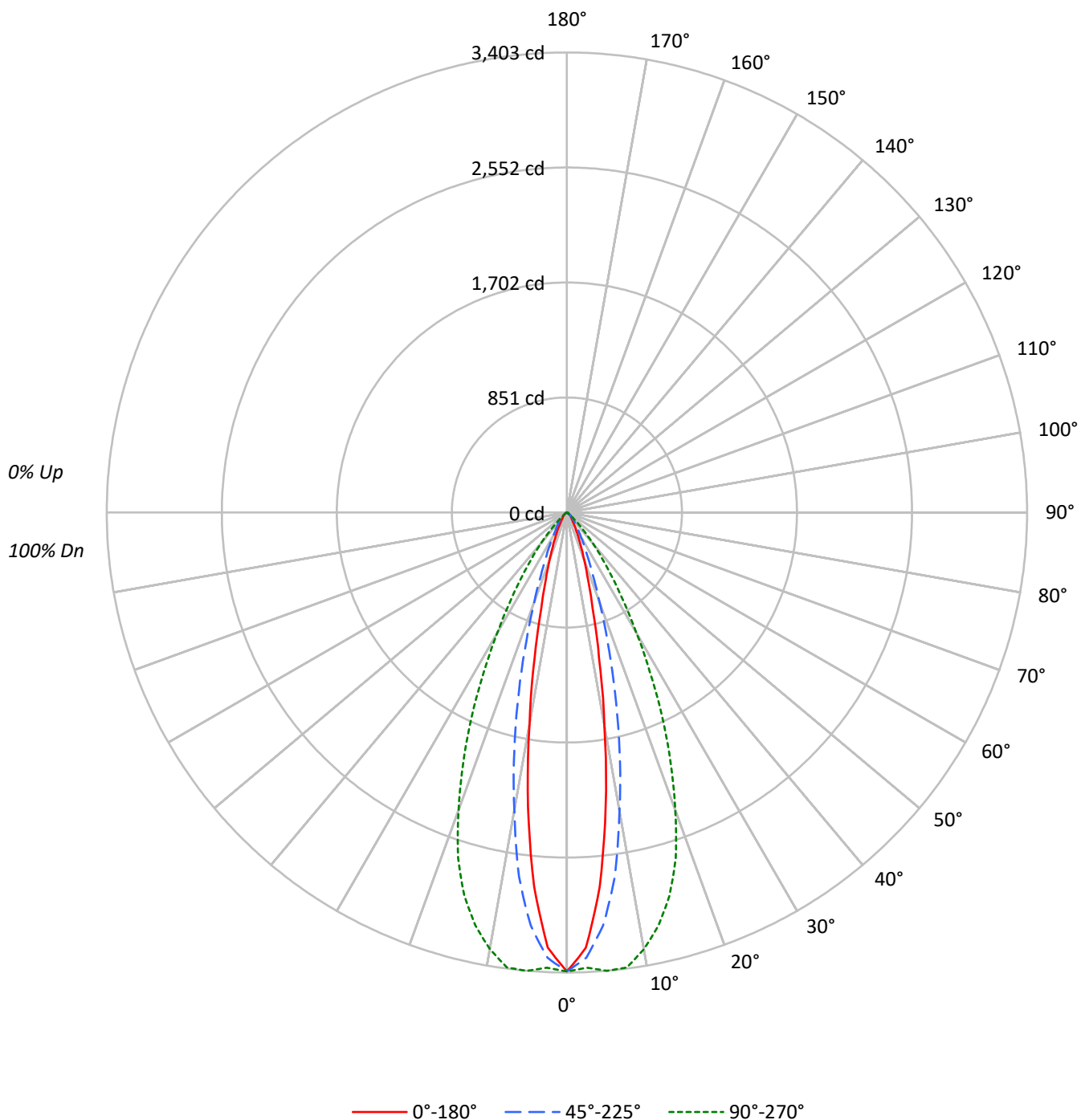
Lumens per Lamp: N/A
Luminaire Lumens: 1220.1 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1674667	1674667	1674667
5°	1376834	1519119	1685274
10°	799202	1122580	1643090
15°	372348	699136	1497310
20°	196202	368620	1230710
25°	108655	199564	907728
30°	63691	116899	587061
35°	40895	78417	347819
40°	31880	52876	193276
45°	27630	31607	85889
50°	25022	21721	31469
55°	17031	15827	14623
60°	12531	11150	11150
65°	9923	8288	9923
70°	8222	8222	8222
75°	8006	8006	8006
80°	7955	7955	7955
85°	7925	7925	7925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 85889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	22.2
10°-20°	442.5	36.3
20°-30°	295.2	24.2
30°-40°	133.1	10.9
40°-50°	48.7	4.0
50°-60°	17.0	1.4
60°-70°	8.0	0.7
70°-80°	4.2	0.3
80°-90°	1.1	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°	1008.0	82.6
0°-40°	1141.1	93.5
0°-60°	1206.8	98.9
0°-90°	1220.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1220.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3394	3394	3394	3394	3394	
5°	2780	2866	3067	3291	3403	227
15°	729	856	1369	2313	2932	218
25°	200	232	367	999	1668	96
35°	68	76	130	282	578	45
45°	40	40	45	71	123	31
55°	20	18	18	16	17	19
65°	8	8	7	7	8	9
75°	4	4	4	4	4	4
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°	3394.4	3394.4	3394.4	3394.4	3394.4
2.5°	3223.1	3257.1	3296.7	3337.8	3370.3
5°	2780.1	2866.4	3067.4	3291.1	3402.9
7.5°	2198.3	2325.7	2716.4	3158.0	3394.4
10°	1595.3	1758.1	2240.8	2927.3	3279.8
12.5°	1097.0	1249.9	1797.7	2635.7	3128.3
15°	729.0	856.4	1368.8	2313.0	2931.5
17.5°	513.8	600.2	995.1	1960.5	2678.2
20°	373.7	431.7	702.1	1615.1	2344.1
22.5°	271.8	315.7	499.7	1291.0	2005.8
25°	199.6	232.1	366.6	999.4	1667.5
27.5°	148.6	174.1	274.6	758.7	1329.2
30°	111.8	133.1	205.2	559.1	1030.5
32.5°	86.3	100.5	157.1	399.2	779.9
35°	67.9	76.4	130.2	281.7	577.5
37.5°	56.6	62.3	107.6	196.8	423.2
40°	49.5	53.8	82.1	140.1	300.1
42.5°	43.9	46.7	59.5	100.5	195.3
45°	39.6	39.6	45.3	70.8	123.1
47.5°	36.8	32.6	35.4	49.5	72.2
50°	32.6	26.9	28.3	34.0	41.0
52.5°	25.5	22.6	22.6	22.6	24.1
55°	19.8	18.4	18.4	15.6	17.0
57.5°	15.6	15.6	14.2	12.7	14.2
60°	12.7	12.7	11.3	9.9	11.3
62.5°	9.9	9.9	8.5	8.5	9.9
65°	8.5	8.5	7.1	7.1	8.5
67.5°	7.1	7.1	7.1	5.7	7.1
70°	5.7	5.7	5.7	5.7	5.7
72.5°	4.2	4.2	5.7	4.2	4.2
75°	4.2	4.2	4.2	4.2	4.2
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	1.4
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)