

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: P1179177

Luminaire Tested: LDA2B158030R2050D010 2LBD1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179177
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: LDA2B158030R2050D010 2LBD1MB
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

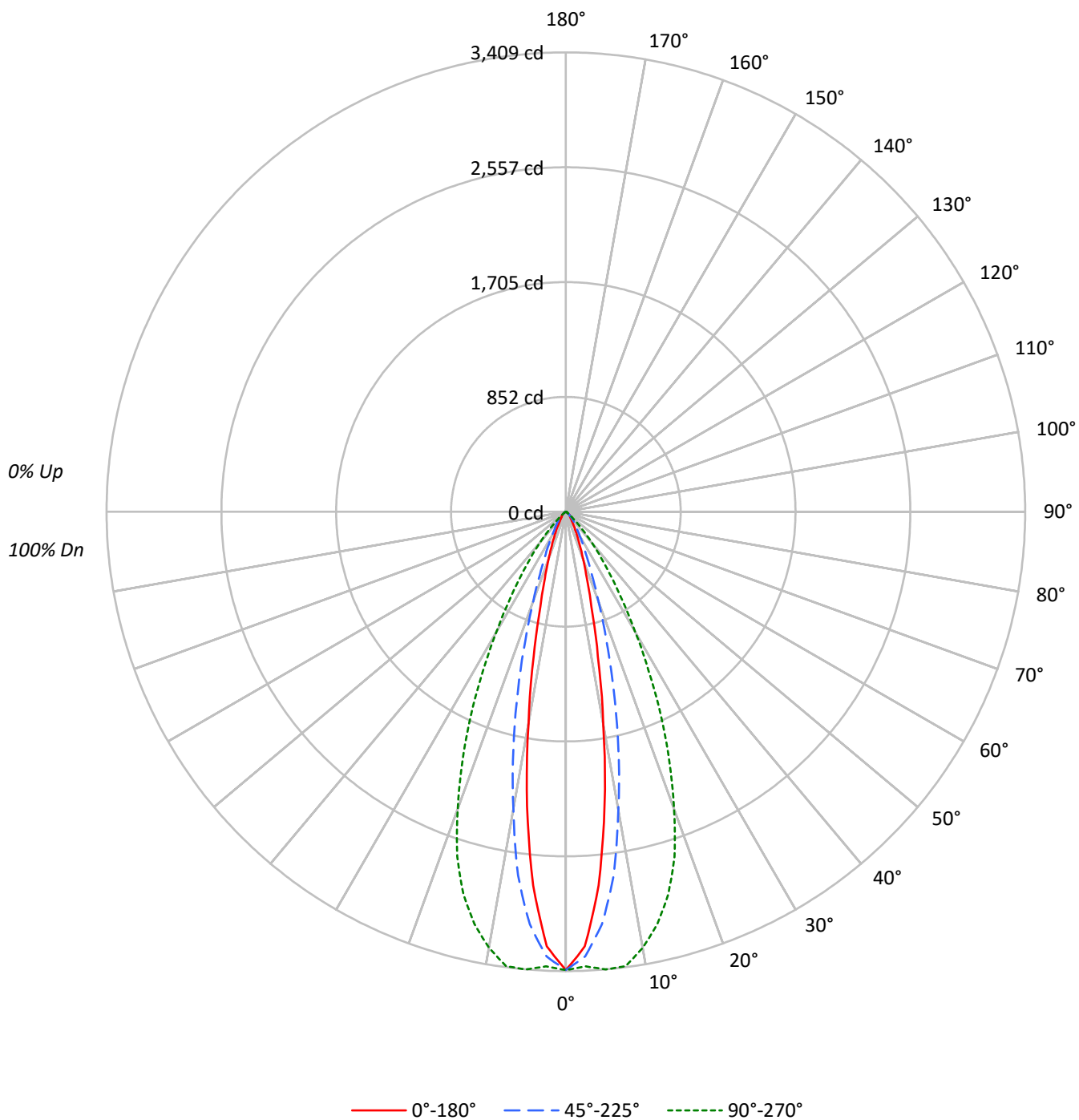
Lumens per Lamp: N/A
Luminaire Lumens: 1222.3 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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: P1179177

CATALOG NUMBER: LDA2B158030R2050D010 2LBD1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1179177

CATALOG NUMBER: LDA2B158030R2050D010 2LBD1MB

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°	1677627	1677627	1677627
5°	1379261	1521793	1688245
10°	800604	1124533	1645946
15°	373012	700362	1499966
20°	196569	369250	1232863
25°	108818	199945	909306
30°	63805	117127	588086
35°	41016	78598	348421
40°	31944	52940	193598
45°	27699	31676	86099
50°	25022	21798	31546
55°	17117	15827	14623
60°	12630	11150	11150
65°	9923	8288	9923
70°	8222	8222	8222
75°	8197	8197	8197
80°	7955	7955	7955
85°	7925	7925	7925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 86099 cd/sqm

TEST NUMBER: P1179177

CATALOG NUMBER: LDA2B158030R2050D010 2LBD1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	22.2
10°-20°	443.3	36.3
20°-30°	295.7	24.2
30°-40°	133.3	10.9
40°-50°	48.8	4.0
50°-60°	17.1	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°	1009.8	82.6
0°-40°	1143.1	93.5
0°-60°	1209.0	98.9
0°-90°	1222.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3400	3400	3400	3400	3400	
5°	2785	2872	3073	3297	3409	227
15°	730	858	1371	2317	2937	219
25°	200	233	367	1001	1670	97
35°	68	77	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	

TEST NUMBER: P1179177

CATALOG NUMBER: LDA2B158030R2050D010 2LBD1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3400.4	3400.4	3400.4	3400.4	3400.4
2.5°	3228.8	3262.8	3302.6	3343.7	3376.3
5°	2785.0	2871.5	3072.8	3296.9	3408.9
7.5°	2202.2	2329.8	2721.2	3163.6	3400.4
10°	1598.1	1761.2	2244.7	2932.4	3285.5
12.5°	1099.0	1252.1	1800.9	2640.3	3133.8
15°	730.3	857.9	1371.2	2317.0	2936.7
17.5°	514.7	601.2	996.9	1963.9	2682.9
20°	374.4	432.5	703.3	1618.0	2348.2
22.5°	272.3	316.2	500.6	1293.2	2009.3
25°	199.9	232.6	367.3	1001.1	1670.4
27.5°	148.9	174.4	275.1	760.1	1331.5
30°	112.0	133.3	205.6	560.1	1032.3
32.5°	86.5	100.7	157.4	399.9	781.3
35°	68.1	76.6	130.5	282.2	578.5
37.5°	56.7	62.4	107.8	197.1	424.0
40°	49.6	53.9	82.2	140.4	300.6
42.5°	44.0	46.8	59.6	100.7	195.7
45°	39.7	39.7	45.4	70.9	123.4
47.5°	36.9	32.6	35.5	49.6	72.3
50°	32.6	26.9	28.4	34.0	41.1
52.5°	25.5	22.7	22.7	22.7	24.1
55°	19.9	18.4	18.4	15.6	17.0
57.5°	15.6	15.6	14.2	12.8	14.2
60°	12.8	12.8	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°	4.3	4.3	5.7	4.3	4.3
75°	4.3	4.3	4.3	4.3	4.3
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)