

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: P1179216

Luminaire Tested: LDA2B158035R2050D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179216
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: LDA2B158035R2050D010 2LBD1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

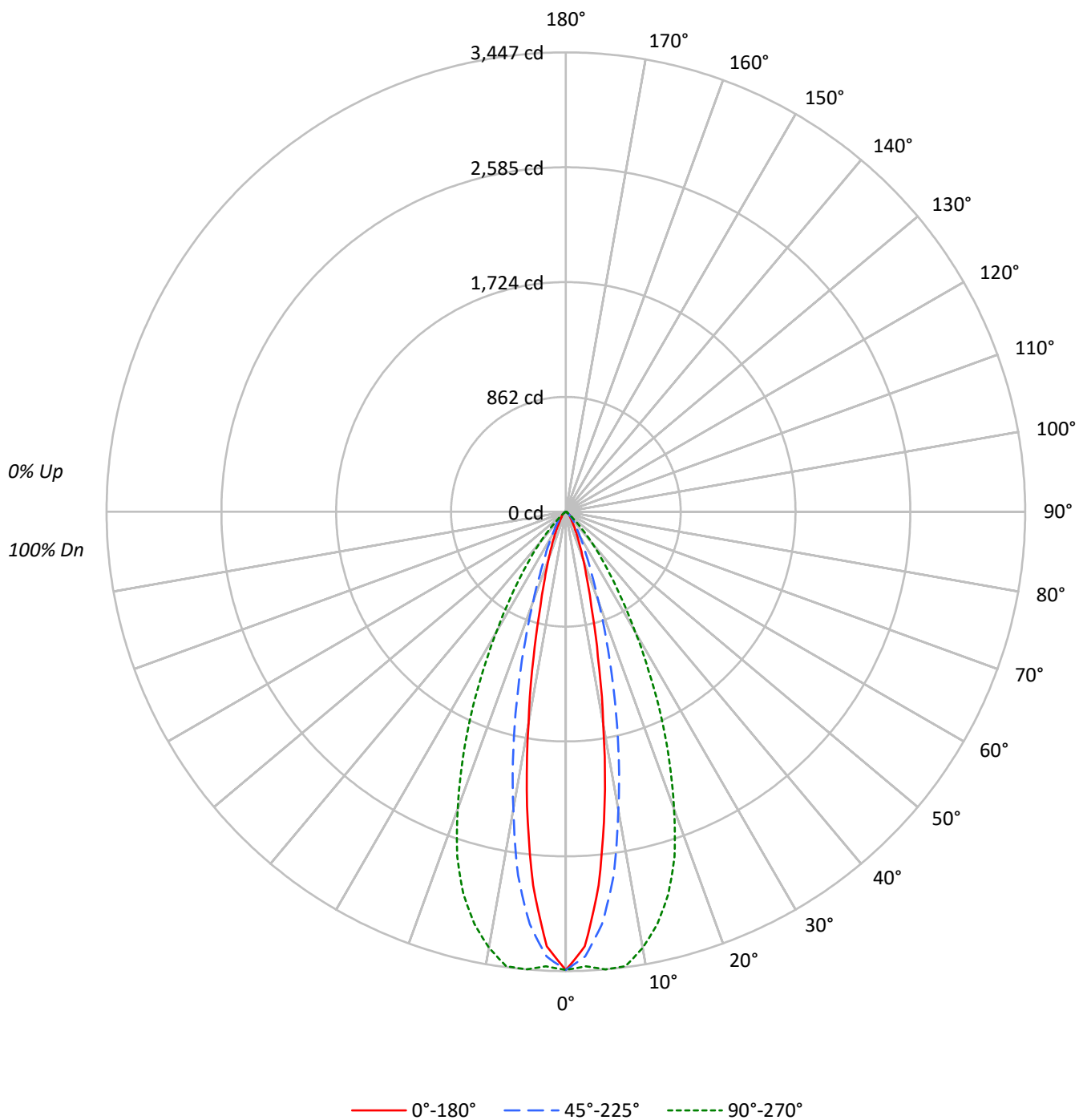
Lumens per Lamp: N/A
Luminaire Lumens: 1235.8 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1179216

CATALOG NUMBER: LDA2B158035R2050D010 2LBD1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1179216

CATALOG NUMBER: LDA2B158035R2050D010 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	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°	1696227	1696227	1696227
5°	1394564	1538681	1706966
10°	809472	1137008	1664231
15°	377149	708126	1516617
20°	198722	373345	1246566
25°	110071	202123	919432
30°	64545	118438	594637
35°	41437	79441	352336
40°	32331	53584	195788
45°	27979	32025	87006
50°	25329	22028	31929
55°	17289	15999	14795
60°	12729	11347	11347
65°	10040	8405	10040
70°	8222	8222	8222
75°	8197	8197	8197
80°	8239	8239	8239
85°	7925	7925	7925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 87006 cd/sqm

TEST NUMBER: P1179216

CATALOG NUMBER: LDA2B158035R2050D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.8	22.2
10°-20°	448.2	36.3
20°-30°	299.0	24.2
30°-40°	134.8	10.9
40°-50°	49.3	4.0
50°-60°	17.2	1.4
60°-70°	8.1	0.7
70°-80°	4.3	0.3
80°-90°	1.2	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°	1021.0	82.6
0°-40°	1155.8	93.5
0°-60°	1222.4	98.9
0°-90°	1235.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1235.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3438	3438	3438	3438	3438	
5°	2816	2903	3107	3334	3447	230
15°	738	867	1386	2343	2969	221
25°	202	235	371	1012	1689	98
35°	69	77	132	285	585	46
45°	40	40	46	72	125	31
55°	20	19	19	16	17	19
65°	9	9	7	7	9	9
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1179216

CATALOG NUMBER: LDA2B158035R2050D010 2LBD1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3438.1	3438.1	3438.1	3438.1	3438.1
2.5°	3264.6	3299.1	3339.2	3380.8	3413.8
5°	2815.9	2903.3	3106.9	3333.5	3446.7
7.5°	2226.6	2355.6	2751.4	3198.7	3438.1
10°	1615.8	1780.7	2269.6	2965.0	3322.0
12.5°	1111.2	1266.0	1820.9	2669.6	3168.6
15°	738.4	867.4	1386.4	2342.7	2969.3
17.5°	520.4	607.9	1007.9	1985.7	2712.6
20°	378.5	437.3	711.1	1635.9	2374.3
22.5°	275.3	319.7	506.1	1307.6	2031.6
25°	202.2	235.1	371.3	1012.2	1689.0
27.5°	150.5	176.4	278.1	768.5	1346.3
30°	113.3	134.8	207.9	566.3	1043.8
32.5°	87.5	101.8	159.1	404.3	790.0
35°	68.8	77.4	131.9	285.3	585.0
37.5°	57.3	63.1	109.0	199.3	428.7
40°	50.2	54.5	83.2	141.9	304.0
42.5°	44.4	47.3	60.2	101.8	197.9
45°	40.1	40.1	45.9	71.7	124.7
47.5°	37.3	33.0	35.8	50.2	73.1
50°	33.0	27.2	28.7	34.4	41.6
52.5°	25.8	22.9	22.9	22.9	24.4
55°	20.1	18.6	18.6	15.8	17.2
57.5°	15.8	15.8	14.3	12.9	14.3
60°	12.9	12.9	11.5	10.0	11.5
62.5°	10.0	10.0	8.6	8.6	10.0
65°	8.6	8.6	7.2	7.2	8.6
67.5°	7.2	7.2	7.2	5.7	7.2
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°	2.9	2.9	2.9	2.9	2.9
80°	2.9	2.9	2.9	2.9	2.9
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)