

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P495327

Luminaire Tested: **LDA2B108050R35D010 2LBD1MW-30DEG TILT**

Issue Date: 3/8/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P495327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B108050R35D010 2LBD1MW-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

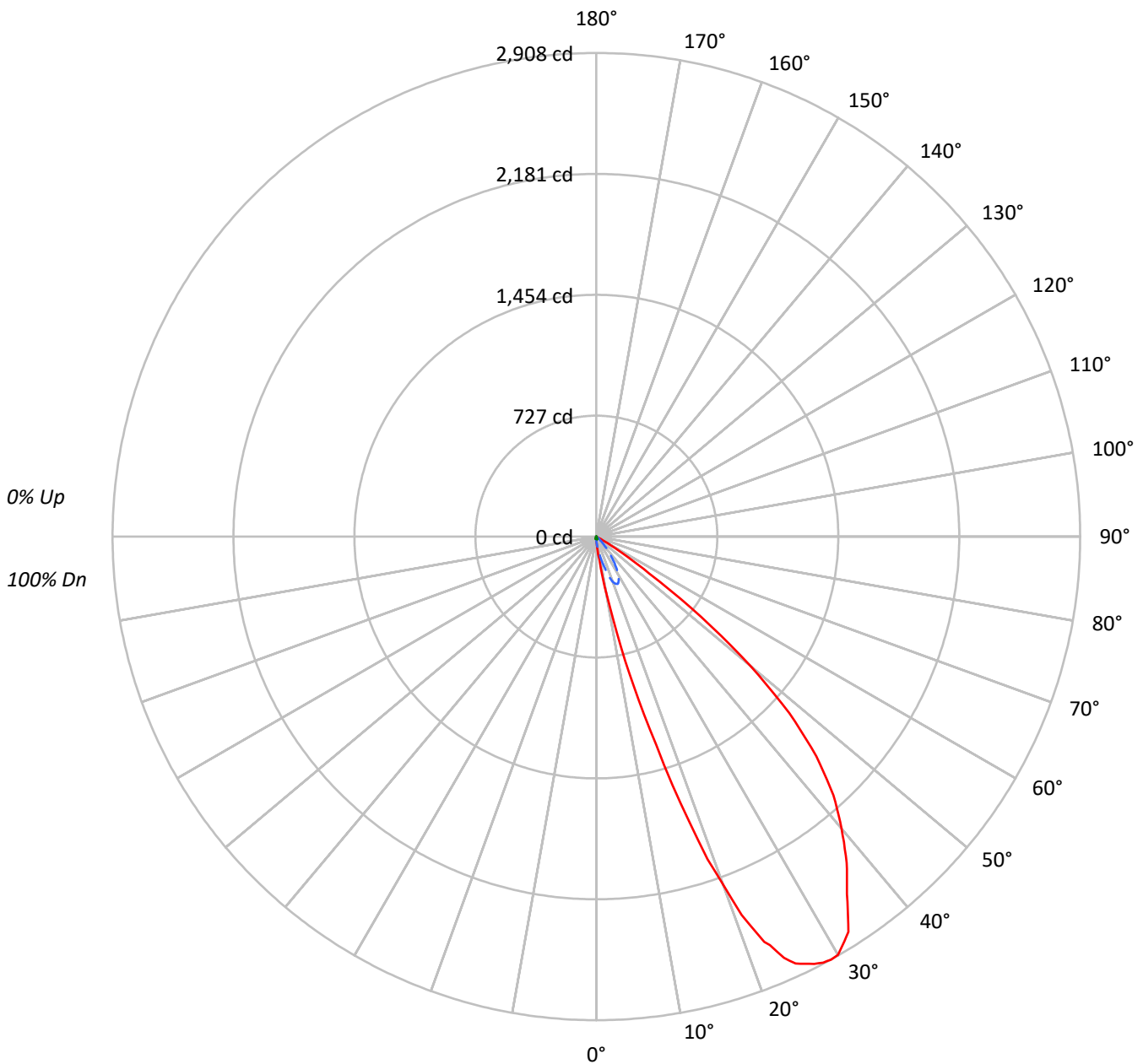
Lumens per Lamp: N/A  
Luminaire Lumens: 784.9 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

TEST NUMBER: P495327

CATALOG NUMBER: LDA2B108050R35D010 2LBD1MW-30DEG TILT

### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    ···· 90°-270°



TEST NUMBER: P495327

CATALOG NUMBER: LDA2B108050R35D010 2LBD1MW-30DEG TILT

**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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	54	47	42	65	54	46	41	53	46	41	51	45	41	50	45	41	39
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	13074	13074	13074
5°	41056	11490	7132
10°	175140	9669	5260
15°	565928	7049	4239
20°	1166395	4358	2888
25°	1542239	2123	1796
30°	1654252	968	968
35°	1580874	663	361
40°	1476006	386	0
45°	1304595	0	0
50°	926338	461	0
55°	332104	516	0
60°	51211	1085	0
65°	2568	1284	0
70°	0	1587	0
75°	0	2097	1144
80°	0	3125	0
85°	0	6227	0



TEST NUMBER: P495327

CATALOG NUMBER: LDA2B108050R35D010 2LBD1MW-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.7	0.6
10°-20°	63.5	8.1
20°-30°	212.6	27.1
30°-40°	267.8	34.1
40°-50°	189.5	24.1
50°-60°	43.7	5.6
60°-70°	1.4	0.2
70°-80°	0.9	0.1
80°-90°	0.8	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°	280.8	35.8
0°-40°	548.6	69.9
0°-60°	781.8	99.6
0°-90°	784.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	83	54	23	17	14	15
15°	1108	196	14	9	8	365
25°	2833	309	4	4	3	1277
35°	2625	181	1	1	1	1643
45°	1870	45	0	0	0	1402
55°	386	2	1	1	0	437
65°	2	1	1	1	0	9
75°	0	1	1	1	1	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P495327

CATALOG NUMBER: LDA2B108050R35D010 2LBD1MW-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
1°	33.1	32.0	30.4	27.6	24.9	23.8	23.8	22.1	22.1
2°	39.8	38.1	34.8	29.3	24.9	22.1	21.0	19.9	19.3
3°	51.4	47.0	39.8	31.5	24.3	21.0	20.4	17.7	17.7
4°	64.1	59.7	45.8	33.1	23.8	19.9	17.7	16.6	16.0
5°	82.9	72.9	54.1	34.8	23.2	18.8	16.6	14.9	14.4
6°	107.2	93.3	61.9	36.5	22.6	17.7	15.5	13.8	13.3
7°	134.8	116.0	71.3	38.1	21.5	16.6	14.4	13.3	12.7
8°	193.3	149.1	82.3	39.2	21.0	15.5	13.8	12.2	11.6
9°	258.5	192.8	94.5	40.9	19.9	14.9	12.7	11.6	11.0
10°	349.6	252.4	108.3	42.0	19.3	13.8	11.6	11.0	10.5
11°	440.2	326.4	125.4	42.5	18.2	12.2	11.6	11.0	10.5
12°	589.4	397.2	140.3	42.5	17.1	11.6	10.5	9.9	9.4
13°	766.1	518.7	161.8	43.1	15.5	11.0	9.9	9.4	9.4
14°	921.9	627.5	176.2	43.1	14.9	9.9	9.4	9.4	8.8
15°	1108.0	733.5	195.5	42.5	13.8	9.4	9.4	8.8	8.3
16°	1303.0	892.6	221.5	41.4	12.7	8.3	8.8	7.7	7.2
17°	1561.5	1024.1	241.4	40.3	11.6	7.7	7.7	7.7	7.2
18°	1798.0	1183.7	257.4	39.2	10.5	7.7	7.2	7.2	6.6
19°	2051.5	1311.9	273.4	37.6	9.4	6.6	6.6	6.6	6.1
20°	2221.6	1469.3	291.1	35.9	8.3	6.1	6.6	6.1	5.5
21°	2437.0	1610.1	297.7	34.2	7.2	5.5	5.5	5.5	5.0
22.5°	2638.7	1797.4	308.2	30.9	6.1	4.4	5.0	4.4	4.4
23°	2669.6	1837.2	308.2	29.8	5.5	4.4	5.0	4.4	4.4
24°	2772.3	1946.0	312.1	27.6	4.4	3.9	4.4	3.9	3.9
25°	2833.1	2032.2	309.3	25.4	3.9	3.9	3.9	3.9	3.3
26°	2857.9	2055.9	302.7	23.8	3.3	3.3	3.9	3.3	2.8
27°	2883.9	2110.0	294.4	21.5	2.8	3.3	3.3	3.3	2.8
28°	2902.1	2116.7	286.1	19.9	2.2	2.8	3.3	2.8	2.8
29°	2908.2	2125.5	276.2	17.7	1.7	2.2	2.8	2.2	2.2
30°	2903.8	2123.9	261.8	16.0	1.7	2.2	2.2	2.2	1.7
32.5°	2819.3	2076.3	222.1	11.6	1.1	1.7	1.7	1.7	1.1
35°	2624.8	1967.0	181.2	7.7	1.1	1.1	1.1	1.1	0.6
37.5°	2471.3	1803.5	138.6	4.4	0.6	1.1	1.1	0.6	0.0
40°	2291.8	1566.5	100.0	2.8	0.6	0.6	0.6	0.0	0.0
42.5°	2109.5	1325.1	67.9	1.1	0.0	0.6	0.6	0.0	0.0
45°	1869.8	1014.7	44.7	0.6	0.0	0.6	0.0	0.0	0.0
47.5°	1572.6	736.9	30.4	0.0	0.0	0.6	0.0	0.0	0.0
50°	1206.9	412.6	17.1	0.0	0.6	0.6	0.6	0.0	0.0
52.5°	795.4	206.0	6.6	0.0	0.6	0.6	0.6	0.0	0.0
55°	386.1	110.5	2.2	0.6	0.6	1.1	0.6	0.0	0.0
57.5°	182.3	43.1	0.6	0.6	1.1	1.1	0.6	0.0	0.0
60°	51.9	8.8	0.6	0.6	1.1	1.1	0.6	0.6	0.0
62.5°	7.2	1.1	0.6	1.1	1.1	1.1	1.1	0.6	0.0
65°	2.2	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0



TEST NUMBER: P495327

CATALOG NUMBER: LDA2B108050R35D010 2LBD1MW-30DEG TILT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
70°	0.0	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
72.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
75°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.6
77.5°	0.0	0.6	1.1	1.1	1.7	1.1	1.1	0.6	0.0
80°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
82.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
85°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
87.5°	0.0	0.6	1.1	1.1	1.1	1.1	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)