

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: P498087

Luminaire Tested: **LDA2B158050R30D010 2LBD1H-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: P498087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B158050R30D010 2LBD1H-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

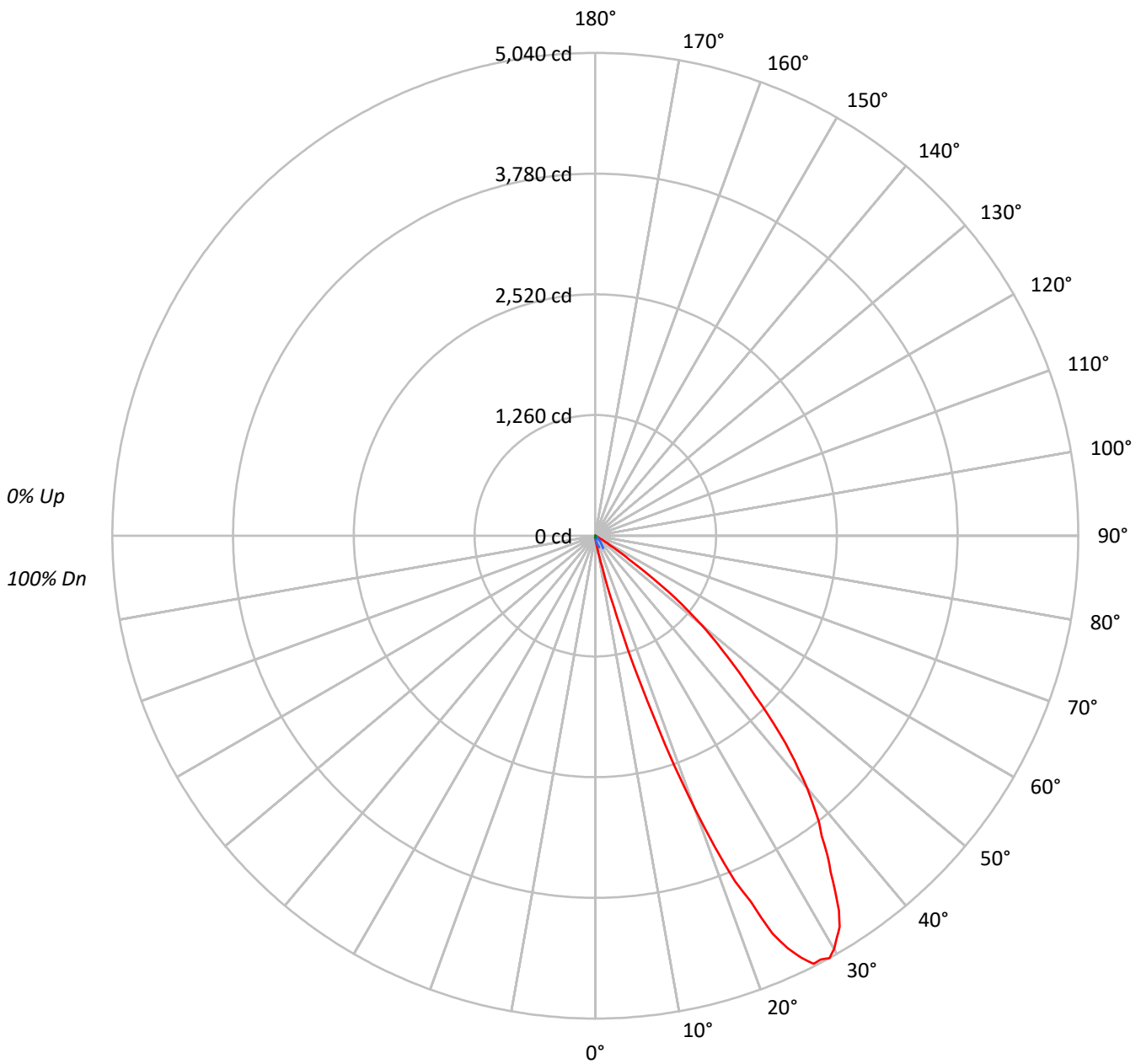
Lumens per Lamp: N/A  
Luminaire Lumens: 1013.8 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: 25 FT

TEST NUMBER: P498087

CATALOG NUMBER: LDA2B158050R30D010 2LBD1H-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P498087

CATALOG NUMBER: LDA2B158050R30D010 2LBD1H-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	57	56
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

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

	0°	90°	180°
0°	11249	11249	11249
5°	24366	10202	7280
10°	73292	8817	4809
15°	444468	6385	3729
20°	1591350	3465	1523
25°	2586221	1198	0
30°	2838399	399	0
35°	2579400	0	0
40°	2213881	0	0
45°	1640965	0	0
50°	1109625	0	0
55°	374853	602	0
60°	53678	1480	0
65°	4319	1751	0
70°	0	2164	0
75°	0	4194	0
80°	0	4262	0
85°	0	8491	0



TEST NUMBER: P498087

CATALOG NUMBER: LDA2B158050R30D010 2LBD1H-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.0	0.3
10°-20°	52.2	5.2
20°-30°	296.5	29.2
30°-40°	386.3	38.1
40°-50°	226.3	22.3
50°-60°	45.7	4.5
60°-70°	1.8	0.2
70°-80°	1.2	0.1
80°-90°	1.0	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°	351.6	34.7
0°-40°	737.9	72.8
0°-60°	1009.9	99.6
0°-90°	1013.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1013.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	49	35	21	16	15	8
15°	870	99	12	8	7	368
25°	4751	167	2	2	0	2101
35°	4283	122	0	0	0	2667
45°	2352	30	0	0	0	1837
55°	436	3	1	1	0	508
65°	4	1	2	2	0	10
75°	0	2	2	2	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	



TEST NUMBER: P498087

CATALOG NUMBER: LDA2B158050R30D010 2LBD1H-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	30.9	28.7	27.2	23.5	21.3	19.8	19.1	18.4	17.6
5°	49.2	45.6	35.3	25.7	20.6	17.6	16.2	14.7	14.7
7.5°	84.5	68.4	46.3	27.2	19.1	15.4	14.0	11.8	11.0
10°	146.3	113.9	63.2	28.7	17.6	14.0	11.0	10.3	9.6
12.5°	343.2	208.0	80.1	28.7	15.4	11.8	9.6	8.8	8.1
15°	870.2	424.1	99.2	27.2	12.5	8.8	8.1	7.3	7.3
17.5°	1805.1	870.9	120.5	25.0	10.3	6.6	5.9	5.1	5.1
20°	3031.0	1561.1	141.1	21.3	6.6	4.4	3.7	2.9	2.9
21°	3482.3	1811.7	151.4	19.8	5.9	3.7	2.9	2.9	2.2
22°	3888.0	2041.8	157.3	19.1	4.4	2.9	2.9	2.2	2.2
23°	4149.7	2333.6	162.4	16.9	3.7	2.2	2.2	1.5	0.7
24°	4544.4	2562.1	164.6	15.4	2.9	2.2	1.5	0.7	0.7
25°	4750.9	2769.4	166.8	14.0	2.2	2.2	1.5	0.7	0.0
26°	4899.4	2933.3	174.9	13.2	2.2	1.5	1.5	0.7	0.0
27°	5015.5	3037.7	179.3	11.8	1.5	1.5	1.5	0.0	0.0
28°	5008.9	3113.4	175.7	10.3	1.5	1.5	0.7	0.0	0.0
29°	5040.5	3164.8	173.5	8.8	0.7	0.7	0.7	0.0	0.0
30°	4982.4	3169.2	165.4	8.1	0.7	0.7	0.7	0.0	0.0
31°	4894.2	3115.6	162.4	7.3	0.0	0.7	0.7	0.0	0.0
32°	4811.2	3091.3	152.9	5.9	0.0	0.7	0.7	0.0	0.0
33°	4668.6	2982.5	143.3	5.1	0.0	0.7	0.0	0.0	0.0
34°	4477.5	2876.0	134.5	4.4	0.0	0.7	0.0	0.0	0.0
35°	4282.7	2787.8	122.0	4.4	0.0	0.7	0.0	0.0	0.0
36°	4121.0	2627.5	113.2	3.7	0.0	0.7	0.0	0.0	0.0
37°	3924.8	2490.1	101.4	2.9	0.0	0.0	0.0	0.0	0.0
38°	3791.0	2296.8	92.6	2.9	0.0	0.0	0.0	0.0	0.0
39°	3610.9	2133.6	81.6	2.2	0.0	0.0	0.0	0.0	0.0
40°	3437.5	1964.6	70.6	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	2939.9	1515.5	48.5	0.7	0.0	0.0	0.0	0.0	0.0
45°	2351.9	1111.3	30.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1867.6	750.4	19.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	1445.7	386.6	11.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	961.4	163.9	6.6	0.0	0.0	0.7	0.0	0.0	0.0
55°	435.8	85.3	2.9	0.0	0.7	0.7	0.7	0.0	0.0
57.5°	175.7	36.7	1.5	0.7	0.7	0.7	0.7	0.0	0.0
60°	54.4	10.3	0.7	0.7	1.5	1.5	0.7	0.0	0.0
62.5°	11.0	2.2	0.7	1.5	1.5	1.5	0.7	0.0	0.0
65°	3.7	0.7	0.7	1.5	1.5	1.5	1.5	0.0	0.0
67.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	0.7	0.0
70°	0.0	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.0
72.5°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
75°	0.0	0.7	1.5	1.5	2.2	2.2	1.5	0.7	0.0
77.5°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
80°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0



TEST NUMBER: P498087

CATALOG NUMBER: LDA2B158050R30D010 2LBD1H-30DEG TILT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
85°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.0	0.0
87.5°	0.0	0.7	1.5	1.5	1.5	1.5	0.7	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)