

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: P495924

Luminaire Tested: **LDA2B109030R30D010 2LBD1B-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: P495924  
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: LDA2B109030R30D010 2LBD1B-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

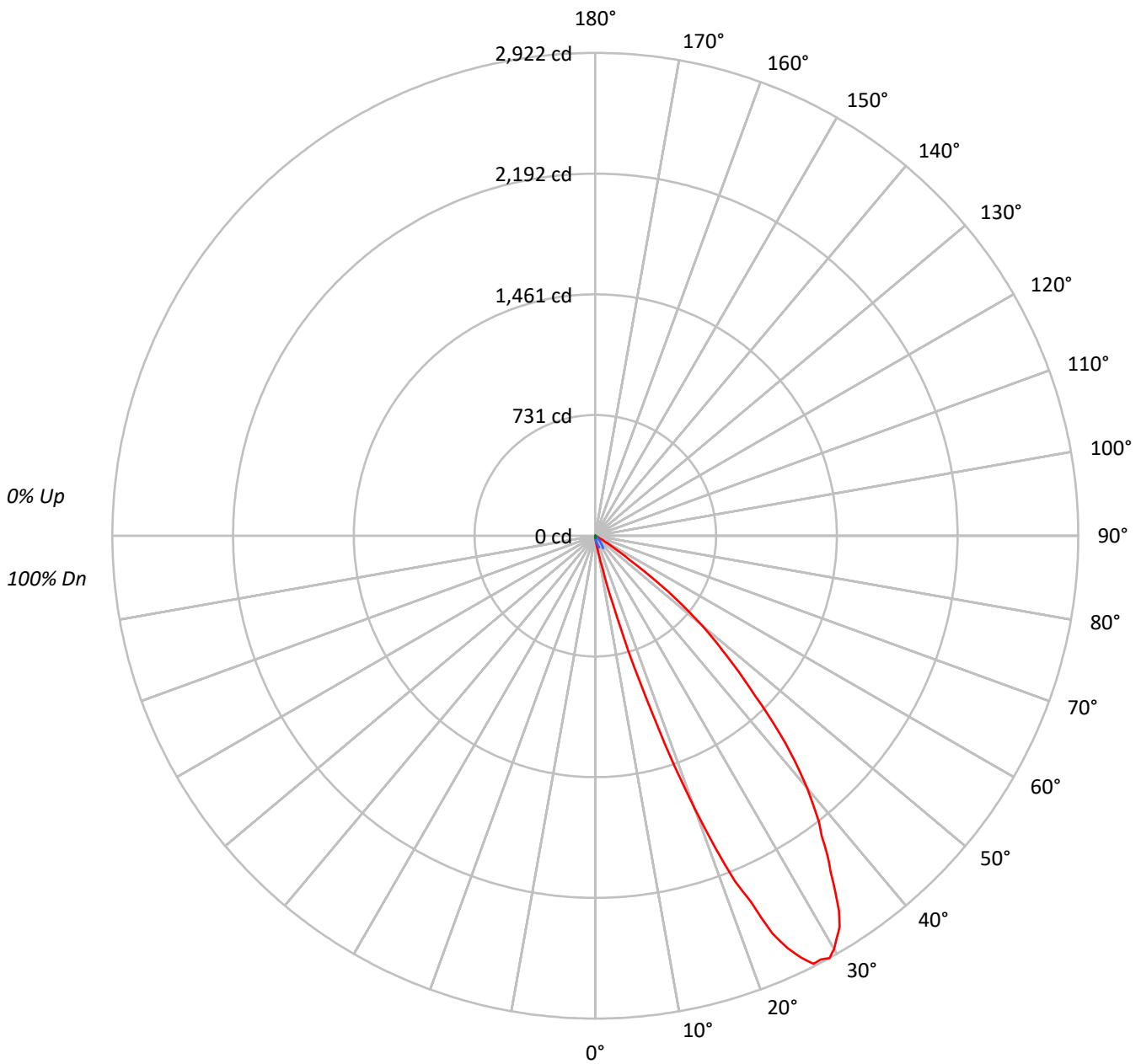
Lumens per Lamp: N/A  
Luminaire Lumens: 587.8 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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### Luminous Intensity Polar Plot



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



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**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°	6512	6512	6512
5°	14115	5893	4210
10°	42482	5110	2755
15°	257681	3678	2196
20°	922626	1995	893
25°	1499398	708	0
30°	1645649	228	0
35°	1495470	0	0
40°	1283568	0	0
45°	951410	0	0
50°	643348	0	0
55°	217360	344	0
60°	31082	888	0
65°	2452	1051	0
70°	0	1298	0
75°	0	2478	0
80°	0	2557	0
85°	0	5095	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.7	0.3
10°-20°	30.3	5.2
20°-30°	171.9	29.2
30°-40°	223.9	38.1
40°-50°	131.2	22.3
50°-60°	26.5	4.5
60°-70°	1.0	0.2
70°-80°	0.7	0.1
80°-90°	0.6	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°	203.9	34.7
0°-40°	427.8	72.8
0°-60°	585.5	99.6
0°-90°	587.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	587.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	28	20	12	9	8	4
15°	504	58	7	5	4	214
25°	2754	97	1	1	0	1218
35°	2483	71	0	0	0	1546
45°	1364	18	0	0	0	1065
55°	253	2	0	0	0	295
65°	2	0	1	1	0	6
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	17.9	16.6	15.8	13.6	12.4	11.5	11.1	10.7	10.2
5°	28.5	26.4	20.5	14.9	11.9	10.2	9.4	8.5	8.5
7.5°	49.0	39.6	26.8	15.8	11.1	8.9	8.1	6.8	6.4
10°	84.8	66.0	36.6	16.6	10.2	8.1	6.4	6.0	5.5
12.5°	199.0	120.6	46.4	16.6	8.9	6.8	5.5	5.1	4.7
15°	504.5	245.9	57.5	15.8	7.2	5.1	4.7	4.3	4.3
17.5°	1046.5	504.9	69.9	14.5	6.0	3.8	3.4	3.0	3.0
20°	1757.3	905.1	81.8	12.4	3.8	2.6	2.1	1.7	1.7
21°	2018.9	1050.4	87.8	11.5	3.4	2.1	1.7	1.7	1.3
22°	2254.2	1183.8	91.2	11.1	2.6	1.7	1.7	1.3	1.3
23°	2405.9	1352.9	94.2	9.8	2.1	1.3	1.3	0.9	0.4
24°	2634.7	1485.4	95.5	8.9	1.7	1.3	0.9	0.4	0.4
25°	2754.4	1605.6	96.7	8.1	1.3	1.3	0.9	0.4	0.0
26°	2840.5	1700.6	101.4	7.7	1.3	0.9	0.9	0.4	0.0
27°	2907.8	1761.1	104.0	6.8	0.9	0.9	0.9	0.0	0.0
28°	2904.0	1805.0	101.8	6.0	0.9	0.9	0.4	0.0	0.0
29°	2922.3	1834.9	100.6	5.1	0.4	0.4	0.4	0.0	0.0
30°	2888.7	1837.4	95.9	4.7	0.4	0.4	0.4	0.0	0.0
31°	2837.5	1806.3	94.2	4.3	0.0	0.4	0.4	0.0	0.0
32°	2789.4	1792.3	88.6	3.4	0.0	0.4	0.4	0.0	0.0
33°	2706.7	1729.2	83.1	3.0	0.0	0.4	0.0	0.0	0.0
34°	2595.9	1667.4	78.0	2.6	0.0	0.4	0.0	0.0	0.0
35°	2483.0	1616.3	70.7	2.6	0.0	0.4	0.0	0.0	0.0
36°	2389.2	1523.4	65.6	2.1	0.0	0.4	0.0	0.0	0.0
37°	2275.5	1443.7	58.8	1.7	0.0	0.0	0.0	0.0	0.0
38°	2197.9	1331.6	53.7	1.7	0.0	0.0	0.0	0.0	0.0
39°	2093.5	1237.0	47.3	1.3	0.0	0.0	0.0	0.0	0.0
40°	1993.0	1139.0	40.9	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	1704.5	878.7	28.1	0.4	0.0	0.0	0.0	0.0	0.0
45°	1363.6	644.3	17.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1082.8	435.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	838.2	224.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	557.4	95.0	3.8	0.0	0.0	0.4	0.0	0.0	0.0
55°	252.7	49.4	1.7	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	101.8	21.3	0.9	0.4	0.4	0.4	0.4	0.0	0.0
60°	31.5	6.0	0.4	0.4	0.9	0.9	0.4	0.0	0.0
62.5°	6.4	1.3	0.4	0.9	0.9	0.9	0.4	0.0	0.0
65°	2.1	0.4	0.4	0.9	0.9	0.9	0.9	0.0	0.0
67.5°	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.4	0.0
70°	0.0	0.4	0.9	0.9	0.9	1.3	0.9	0.4	0.0
72.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
75°	0.0	0.4	0.9	0.9	1.3	1.3	0.9	0.4	0.0
77.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
80°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
85°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.0	0.0
87.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.4	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)