

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: P492471

Luminaire Tested: **LDA2B058050R30D010 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: P492471  
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: LDA2B058050R30D010 2LBD1H-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

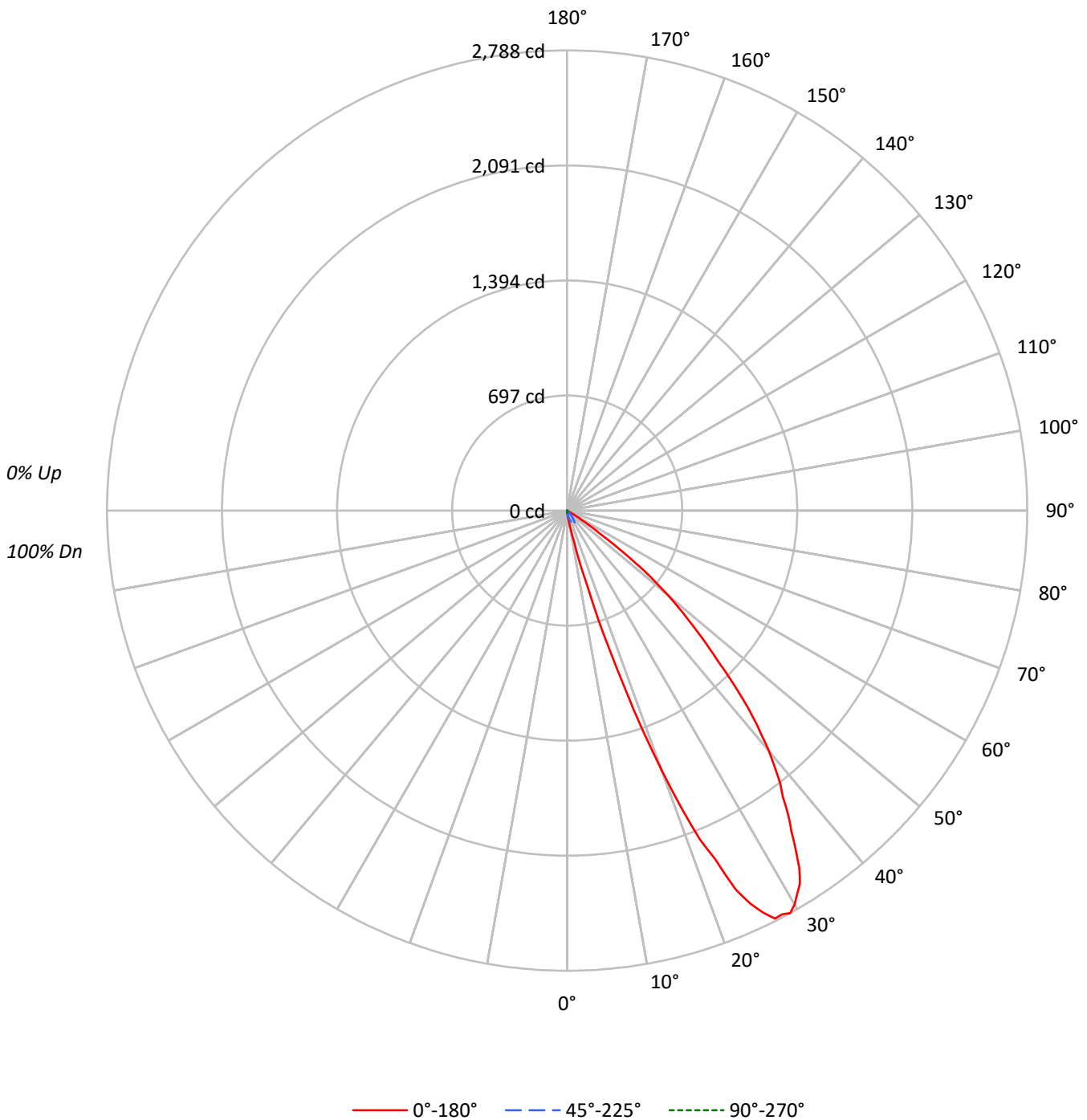
Lumens per Lamp: N/A  
Luminaire Lumens: 560.8 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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

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### Luminous Intensity Polar Plot





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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	58	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°	6216	6216	6216
5°	13471	5646	4011
10°	40529	4910	2655
15°	245883	3524	2094
20°	880309	1943	840
25°	1430699	653	0
30°	1570166	228	0
35°	1426930	0	0
40°	1224703	0	0
45°	907802	0	0
50°	613797	0	0
55°	207382	344	0
60°	29700	789	0
65°	2335	934	0
70°	0	1154	0
75°	0	2287	0
80°	0	2273	0
85°	0	4529	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.6	0.3
10°-20°	28.9	5.2
20°-30°	164.0	29.2
30°-40°	213.7	38.1
40°-50°	125.2	22.3
50°-60°	25.3	4.5
60°-70°	1.0	0.2
70°-80°	0.7	0.1
80°-90°	0.5	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°	194.5	34.7
0°-40°	408.2	72.8
0°-60°	558.7	99.6
0°-90°	560.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	27	20	11	9	8	4
15°	481	55	7	4	4	204
25°	2628	92	1	1	0	1162
35°	2369	68	0	0	0	1475
45°	1301	17	0	0	0	1016
55°	241	2	0	0	0	281
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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	17.1	15.9	15.0	13.0	11.8	11.0	10.6	10.2	9.8
5°	27.2	25.2	19.5	14.2	11.4	9.8	8.9	8.1	8.1
7.5°	46.8	37.8	25.6	15.0	10.6	8.5	7.7	6.5	6.1
10°	80.9	63.0	35.0	15.9	9.8	7.7	6.1	5.7	5.3
12.5°	189.9	115.1	44.3	15.9	8.5	6.5	5.3	4.9	4.5
15°	481.4	234.6	54.9	15.0	6.9	4.9	4.5	4.1	4.1
17.5°	998.6	481.8	66.7	13.8	5.7	3.7	3.3	2.8	2.8
20°	1676.7	863.6	78.1	11.8	3.7	2.4	2.0	1.6	1.6
21°	1926.4	1002.2	83.8	11.0	3.3	2.0	1.6	1.6	1.2
22°	2150.8	1129.5	87.0	10.6	2.4	1.6	1.6	1.2	1.2
23°	2295.6	1290.9	89.9	9.4	2.0	1.2	1.2	0.8	0.4
24°	2513.9	1417.3	91.1	8.5	1.6	1.2	0.8	0.4	0.4
25°	2628.2	1532.0	92.3	7.7	1.2	1.2	0.8	0.4	0.0
26°	2710.3	1622.7	96.8	7.3	1.2	0.8	0.8	0.4	0.0
27°	2774.5	1680.4	99.2	6.5	0.8	0.8	0.8	0.0	0.0
28°	2770.9	1722.3	97.2	5.7	0.8	0.8	0.4	0.0	0.0
29°	2788.3	1750.7	96.0	4.9	0.4	0.4	0.4	0.0	0.0
30°	2756.2	1753.2	91.5	4.5	0.4	0.4	0.4	0.0	0.0
31°	2707.4	1723.5	89.9	4.1	0.0	0.4	0.4	0.0	0.0
32°	2661.5	1710.1	84.6	3.3	0.0	0.4	0.4	0.0	0.0
33°	2582.6	1649.9	79.3	2.8	0.0	0.4	0.0	0.0	0.0
34°	2476.9	1591.0	74.4	2.4	0.0	0.4	0.0	0.0	0.0
35°	2369.2	1542.2	67.5	2.4	0.0	0.4	0.0	0.0	0.0
36°	2279.7	1453.5	62.6	2.0	0.0	0.4	0.0	0.0	0.0
37°	2171.2	1377.5	56.1	1.6	0.0	0.0	0.0	0.0	0.0
38°	2097.2	1270.6	51.2	1.6	0.0	0.0	0.0	0.0	0.0
39°	1997.5	1180.3	45.1	1.2	0.0	0.0	0.0	0.0	0.0
40°	1901.6	1086.8	39.0	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1626.3	838.4	26.8	0.4	0.0	0.0	0.0	0.0	0.0
45°	1301.1	614.8	16.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1033.1	415.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	799.7	213.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	531.8	90.7	3.7	0.0	0.0	0.4	0.0	0.0	0.0
55°	241.1	47.2	1.6	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	97.2	20.3	0.8	0.4	0.4	0.4	0.4	0.0	0.0
60°	30.1	5.7	0.4	0.4	0.8	0.8	0.4	0.0	0.0
62.5°	6.1	1.2	0.4	0.8	0.8	0.8	0.4	0.0	0.0
65°	2.0	0.4	0.4	0.8	0.8	0.8	0.8	0.0	0.0
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	1.2	1.2	0.8	0.4	0.0
77.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	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	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	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)