

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: P498689

Luminaire Tested: **LDA2B159030R20D010 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: P498689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159030R20D010 2LBD1B-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

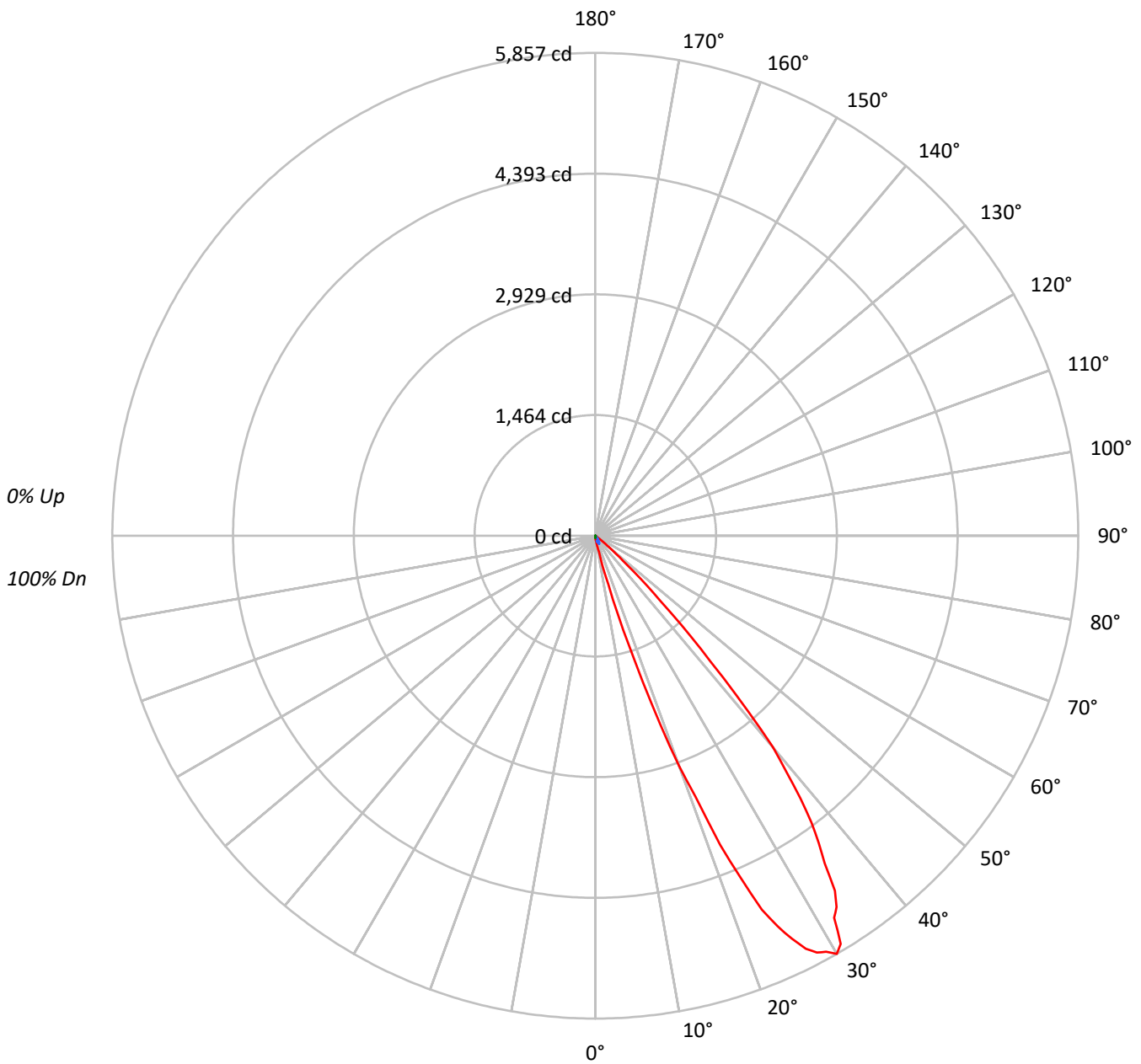
Lumens per Lamp: N/A  
Luminaire Lumens: 739.5 lumens  
Efficiency: N/A  
Efficacy: 52.4 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

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

	0°	90°	180°
0°	11742	11742	11742
5°	22484	10400	7577
10°	53704	9068	5110
15°	312742	7253	2043
20°	1560163	4463	578
25°	2844794	1524	0
30°	3336646	0	0
35°	2920413	0	0
40°	2156626	0	0
45°	777329	0	0
50°	161873	0	0
55°	37072	516	0
60°	11742	592	0
65°	2685	1284	0
70°	0	1587	865
75°	0	2097	0
80°	0	3125	0
85°	0	6227	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.7	0.4
10°-20°	40.6	5.5
20°-30°	273.9	37.0
30°-40°	320.0	43.3
40°-50°	93.3	12.6
50°-60°	6.2	0.8
60°-70°	1.2	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°	317.2	42.9
0°-40°	637.1	86.2
0°-60°	736.7	99.6
0°-90°	739.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	739.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	45	33	21	18	15	6
15°	612	69	14	7	4	319
25°	5226	107	3	0	0	2314
35°	4849	58	0	0	0	2979
45°	1114	12	0	0	0	1027
55°	43	2	1	1	0	55
65°	2	1	1	1	0	4
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°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	30.6	30.6	27.2	24.4	22.1	21.0	20.4	19.3	18.7
5°	45.4	39.7	32.9	25.5	21.0	19.3	17.6	15.9	15.3
7.5°	66.3	57.8	39.7	26.1	19.8	17.0	15.3	13.6	12.5
10°	107.2	83.3	48.8	26.1	18.1	14.7	12.5	10.8	10.2
12.5°	197.9	127.6	58.4	25.5	16.4	12.5	9.6	8.5	6.8
15°	612.3	264.2	69.2	24.4	14.2	9.6	7.4	4.5	4.0
17.5°	1583.6	616.9	77.1	21.5	11.3	6.8	3.4	2.8	2.8
20°	2971.6	1118.7	88.5	18.7	8.5	4.5	2.3	1.7	1.1
21°	3390.0	1368.7	94.1	17.6	7.4	2.8	1.7	0.6	0.6
22°	4040.4	1641.4	98.7	16.4	6.2	1.7	1.1	0.6	0.0
23°	4503.6	1815.5	103.2	14.7	4.5	1.7	0.6	0.0	0.0
24°	4966.8	2037.2	106.0	13.6	4.0	1.1	0.6	0.0	0.0
25°	5225.9	2222.0	107.2	12.5	2.8	0.6	0.0	0.0	0.0
26°	5439.1	2345.6	107.7	11.3	1.7	0.0	0.0	0.0	0.0
27°	5621.7	2489.1	106.6	10.2	1.7	0.0	0.0	0.0	0.0
28°	5725.5	2512.9	104.9	9.1	0.6	0.0	0.0	0.0	0.0
29°	5770.3	2484.0	99.8	7.9	0.6	0.0	0.0	0.0	0.0
30°	5857.0	2456.8	94.7	7.4	0.0	0.0	0.0	0.0	0.0
31°	5777.1	2366.6	88.5	6.2	0.0	0.0	0.0	0.0	0.0
32°	5464.1	2290.6	81.1	5.1	0.0	0.0	0.0	0.0	0.0
33°	5370.5	2134.7	73.1	4.5	0.0	0.0	0.0	0.0	0.0
34°	5194.2	1902.8	66.3	4.0	0.0	0.0	0.0	0.0	0.0
35°	4848.9	1711.2	57.8	3.4	0.0	0.0	0.0	0.0	0.0
36°	4607.9	1492.3	50.5	2.8	0.0	0.0	0.0	0.0	0.0
37°	4355.6	1301.2	44.8	2.3	0.0	0.0	0.0	0.0	0.0
38°	4042.1	1100.5	38.0	1.7	0.0	0.0	0.0	0.0	0.0
39°	3676.9	909.5	32.3	1.7	0.0	0.0	0.0	0.0	0.0
40°	3348.6	733.1	27.8	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	2066.7	418.4	16.4	1.1	0.0	0.0	0.0	0.0	0.0
45°	1114.1	254.0	11.9	0.6	0.0	0.0	0.0	0.0	0.0
47.5°	513.1	118.5	8.5	0.6	0.0	0.0	0.0	0.0	0.0
50°	210.9	52.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	76.0	29.5	4.0	0.0	0.0	0.6	0.0	0.0	0.0
55°	43.1	17.0	2.3	0.6	0.6	0.6	0.6	0.0	0.0
57.5°	20.4	9.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
60°	11.9	5.1	0.6	0.6	0.6	1.1	0.6	0.0	0.0
62.5°	5.7	1.7	0.6	1.1	1.1	1.1	1.1	0.6	0.0
65°	2.3	0.6	1.1	1.1	1.1	1.7	1.1	0.6	0.0
67.5°	0.6	0.6	1.1	1.1	1.1	1.7	1.1	0.6	0.6
70°	0.0	0.6	1.1	1.1	1.1	1.7	1.1	0.6	0.6
72.5°	0.0	0.6	1.1	1.1	1.1	1.7	1.1	0.6	0.6
75°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
77.5°	0.0	0.6	1.1	1.1	1.1	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



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	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)