

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: P497223

Luminaire Tested: **LDA2B158027R30D010 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: P497223  
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: LDA2B158027R30D010 2LBD1H-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

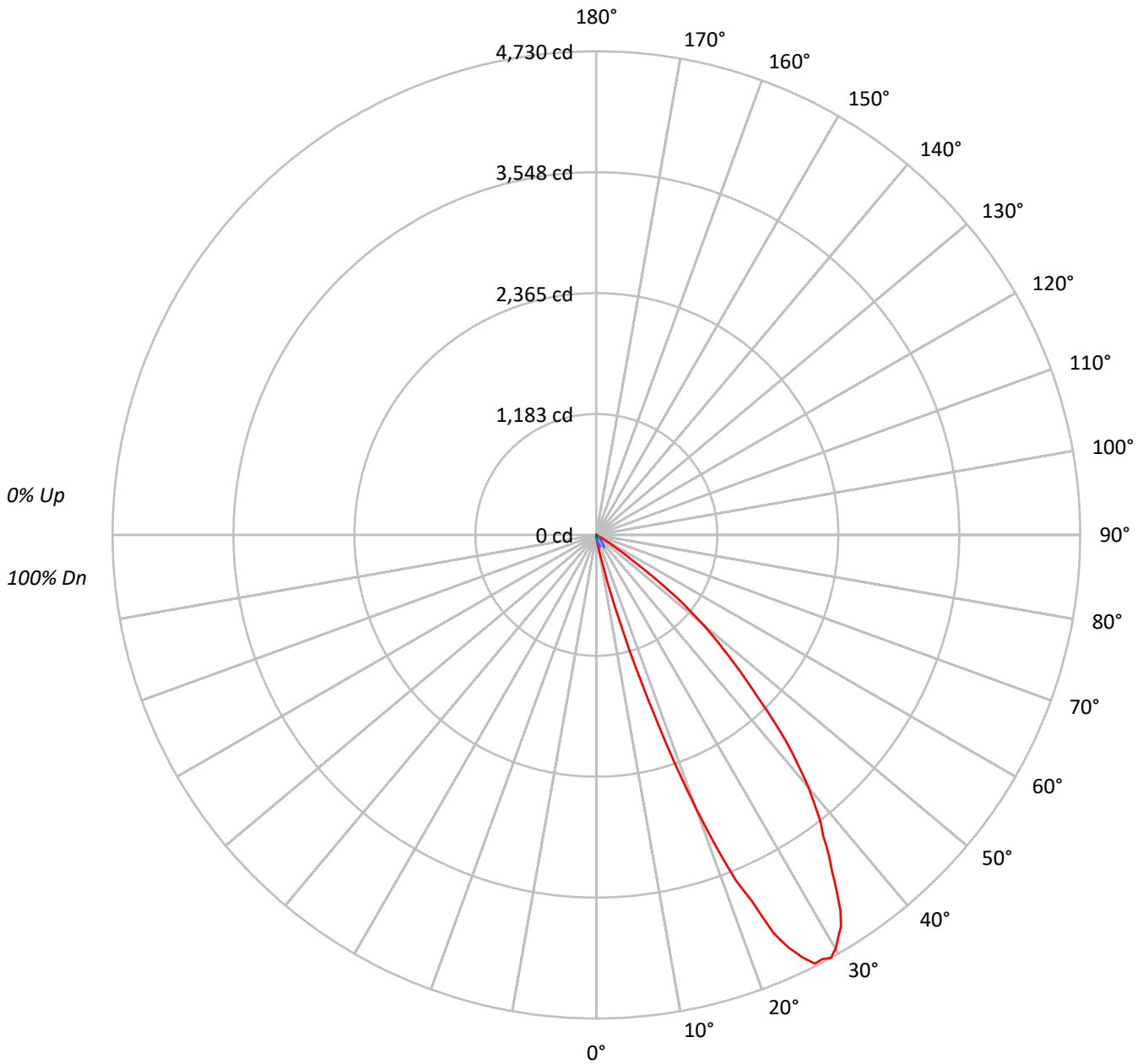
Lumens per Lamp: N/A  
Luminaire Lumens: 951.3 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (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	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					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°	10558	10558	10558
5°	22880	9558	6834
10°	68733	8316	4509
15°	417040	5976	3524
20°	1493223	3255	1470
25°	2426668	1143	0
30°	2663278	399	0
35°	2420276	0	0
40°	2077280	0	0
45°	1539726	0	0
50°	1041161	0	0
55°	351801	602	0
60°	50323	1381	0
65°	3969	1634	0
70°	0	2019	0
75°	0	4003	0
80°	0	3978	0
85°	0	7925	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.8	0.3
10°-20°	49.0	5.2
20°-30°	278.2	29.2
30°-40°	362.4	38.1
40°-50°	212.3	22.3
50°-60°	42.9	4.5
60°-70°	1.7	0.2
70°-80°	1.2	0.1
80°-90°	0.9	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°	330.0	34.7
0°-40°	692.4	72.8
0°-60°	947.6	99.6
0°-90°	951.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	46	33	19	15	14	7
15°	816	93	12	8	7	346
25°	4458	156	2	1	0	1971
35°	4018	114	0	0	0	2502
45°	2207	28	0	0	0	1724
55°	409	3	1	1	0	477
65°	3	1	1	1	0	10
75°	0	1	2	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°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
2.5°	29.0	26.9	25.5	22.1	20.0	18.6	17.9	17.2	16.6
5°	46.2	42.8	33.1	24.1	19.3	16.6	15.2	13.8	13.8
7.5°	79.3	64.1	43.4	25.5	17.9	14.5	13.1	11.0	10.3
10°	137.2	106.9	59.3	26.9	16.6	13.1	10.3	9.7	9.0
12.5°	322.1	195.2	75.2	26.9	14.5	11.0	9.0	8.3	7.6
15°	816.5	397.9	93.1	25.5	11.7	8.3	7.6	6.9	6.9
17.5°	1693.7	817.2	113.1	23.4	9.7	6.2	5.5	4.8	4.8
20°	2844.1	1464.8	132.4	20.0	6.2	4.1	3.4	2.8	2.8
21°	3267.5	1699.9	142.1	18.6	5.5	3.4	2.8	2.8	2.1
22°	3648.2	1915.8	147.6	17.9	4.1	2.8	2.8	2.1	2.1
23°	3893.7	2189.6	152.4	15.9	3.4	2.1	2.1	1.4	0.7
24°	4264.0	2404.1	154.5	14.5	2.8	2.1	1.4	0.7	0.7
25°	4457.8	2598.5	156.5	13.1	2.1	2.1	1.4	0.7	0.0
26°	4597.1	2752.3	164.1	12.4	2.1	1.4	1.4	0.7	0.0
27°	4706.1	2850.3	168.3	11.0	1.4	1.4	1.4	0.0	0.0
28°	4699.9	2921.3	164.8	9.7	1.4	1.4	0.7	0.0	0.0
29°	4729.5	2969.6	162.8	8.3	0.7	0.7	0.7	0.0	0.0
30°	4675.0	2973.7	155.2	7.6	0.7	0.7	0.7	0.0	0.0
31°	4592.3	2923.4	152.4	6.9	0.0	0.7	0.7	0.0	0.0
32°	4514.3	2900.6	143.4	5.5	0.0	0.7	0.7	0.0	0.0
33°	4380.6	2798.5	134.5	4.8	0.0	0.7	0.0	0.0	0.0
34°	4201.3	2698.5	126.2	4.1	0.0	0.7	0.0	0.0	0.0
35°	4018.5	2615.8	114.5	4.1	0.0	0.7	0.0	0.0	0.0
36°	3866.8	2465.4	106.2	3.4	0.0	0.7	0.0	0.0	0.0
37°	3682.6	2336.5	95.2	2.8	0.0	0.0	0.0	0.0	0.0
38°	3557.1	2155.1	86.9	2.8	0.0	0.0	0.0	0.0	0.0
39°	3388.2	2002.0	76.5	2.1	0.0	0.0	0.0	0.0	0.0
40°	3225.4	1843.4	66.2	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	2758.5	1422.0	45.5	0.7	0.0	0.0	0.0	0.0	0.0
45°	2206.8	1042.7	28.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1752.4	704.1	17.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	1356.5	362.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	902.0	153.8	6.2	0.0	0.0	0.7	0.0	0.0	0.0
55°	409.0	80.0	2.8	0.0	0.7	0.7	0.7	0.0	0.0
57.5°	164.8	34.5	1.4	0.7	0.7	0.7	0.7	0.0	0.0
60°	51.0	9.7	0.7	0.7	1.4	1.4	0.7	0.0	0.0
62.5°	10.3	2.1	0.7	1.4	1.4	1.4	0.7	0.0	0.0
65°	3.4	0.7	0.7	1.4	1.4	1.4	1.4	0.0	0.0
67.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0
70°	0.0	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.0
72.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
75°	0.0	0.7	1.4	1.4	2.1	2.1	1.4	0.7	0.0
77.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
80°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	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	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
85°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.0	0.0
87.5°	0.0	0.7	1.4	1.4	1.4	1.4	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)