

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: P498732

Luminaire Tested: **LDA2B159030R30D010 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: P498732  
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: LDA2B159030R30D010 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**

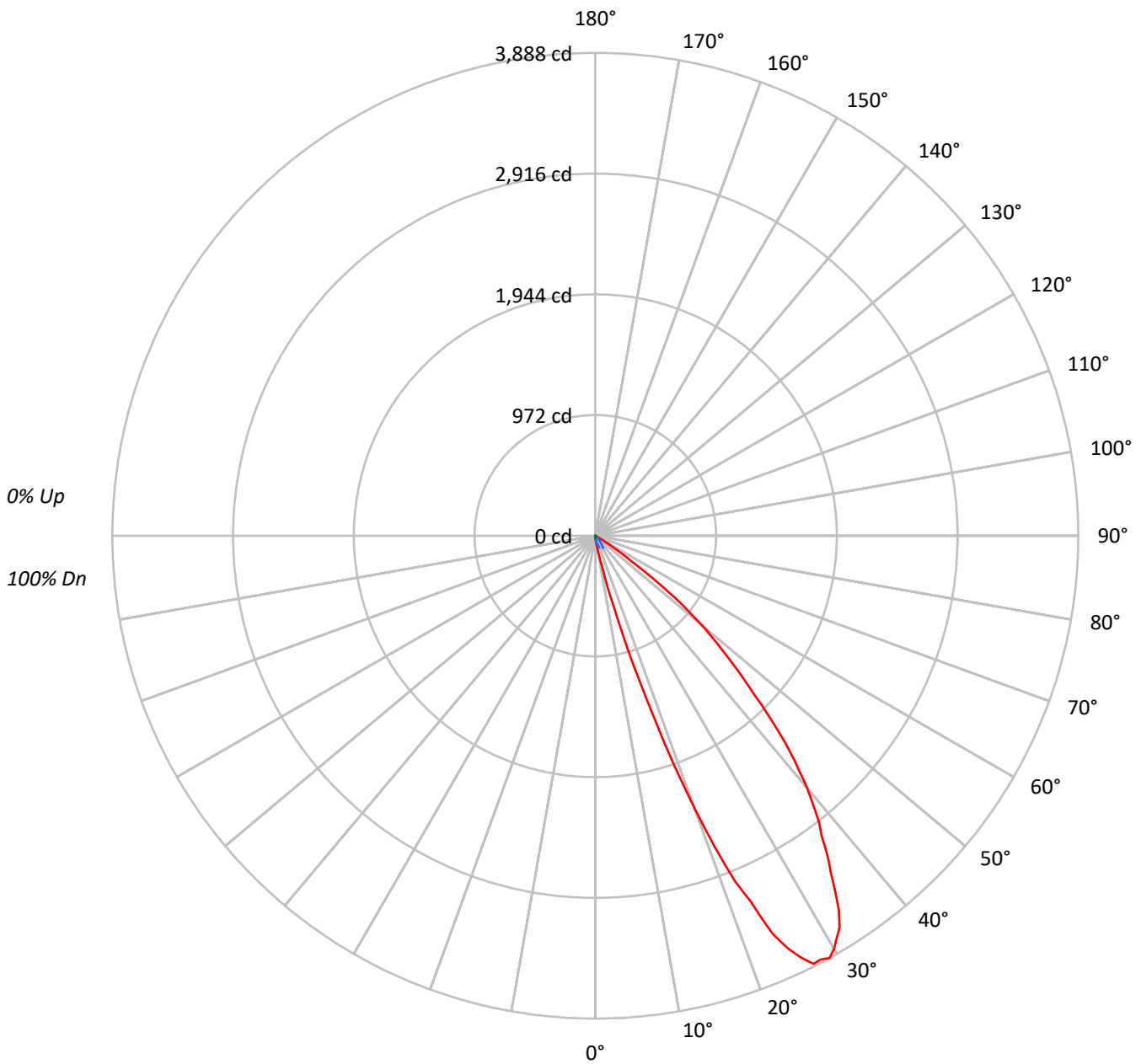
Lumens per Lamp: N/A  
Luminaire Lumens: 782.1 lumens  
Efficiency: N/A  
Efficacy: 55.5 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49					49			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39					39			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31					31			

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

	0°	90°	180°
0°	8683	8683	8683
5°	18819	7874	5596
10°	56510	6813	3707
15°	342877	4903	2911
20°	1227665	2678	1208
25°	1995096	925	0
30°	2189642	342	0
35°	1989885	0	0
40°	1707860	0	0
45°	1265941	0	0
50°	856031	0	0
55°	289182	516	0
60°	41442	1085	0
65°	3269	1284	0
70°	0	1587	0
75°	0	3241	0
80°	0	3125	0
85°	0	6227	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.3	0.3
10°-20°	40.3	5.2
20°-30°	228.7	29.2
30°-40°	298.0	38.1
40°-50°	174.5	22.3
50°-60°	35.3	4.5
60°-70°	1.4	0.2
70°-80°	0.9	0.1
80°-90°	0.7	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°	271.3	34.7
0°-40°	569.3	72.8
0°-60°	779.1	99.6
0°-90°	782.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	782.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	38	27	16	12	11	6
15°	671	76	10	6	6	284
25°	3665	129	2	1	0	1621
35°	3304	94	0	0	0	2057
45°	1814	23	0	0	0	1417
55°	336	2	1	1	0	392
65°	3	1	1	1	0	8
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°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
2.5°	23.8	22.1	21.0	18.1	16.4	15.3	14.7	14.2	13.6
5°	38.0	35.2	27.2	19.8	15.9	13.6	12.5	11.3	11.3
7.5°	65.2	52.7	35.7	21.0	14.7	11.9	10.8	9.1	8.5
10°	112.8	87.9	48.8	22.1	13.6	10.8	8.5	7.9	7.4
12.5°	264.8	160.5	61.8	22.1	11.9	9.1	7.4	6.8	6.2
15°	671.3	327.2	76.5	21.0	9.6	6.8	6.2	5.7	5.7
17.5°	1392.5	671.9	93.0	19.3	7.9	5.1	4.5	4.0	4.0
20°	2338.3	1204.3	108.9	16.4	5.1	3.4	2.8	2.3	2.3
21°	2686.4	1397.6	116.8	15.3	4.5	2.8	2.3	2.3	1.7
22°	2999.4	1575.1	121.3	14.7	3.4	2.3	2.3	1.7	1.7
23°	3201.2	1800.2	125.3	13.0	2.8	1.7	1.7	1.1	0.6
24°	3505.7	1976.5	127.0	11.9	2.3	1.7	1.1	0.6	0.6
25°	3665.0	2136.4	128.7	10.8	1.7	1.7	1.1	0.6	0.0
26°	3779.6	2262.9	134.9	10.2	1.7	1.1	1.1	0.6	0.0
27°	3869.1	2343.4	138.3	9.1	1.1	1.1	1.1	0.0	0.0
28°	3864.0	2401.8	135.5	7.9	1.1	1.1	0.6	0.0	0.0
29°	3888.4	2441.5	133.8	6.8	0.6	0.6	0.6	0.0	0.0
30°	3843.6	2444.9	127.6	6.2	0.6	0.6	0.6	0.0	0.0
31°	3775.6	2403.5	125.3	5.7	0.0	0.6	0.6	0.0	0.0
32°	3711.5	2384.8	117.9	4.5	0.0	0.6	0.6	0.0	0.0
33°	3601.5	2300.8	110.6	4.0	0.0	0.6	0.0	0.0	0.0
34°	3454.1	2218.6	103.8	3.4	0.0	0.6	0.0	0.0	0.0
35°	3303.9	2150.6	94.1	3.4	0.0	0.6	0.0	0.0	0.0
36°	3179.1	2027.0	87.3	2.8	0.0	0.6	0.0	0.0	0.0
37°	3027.7	1921.0	78.2	2.3	0.0	0.0	0.0	0.0	0.0
38°	2924.5	1771.8	71.4	2.3	0.0	0.0	0.0	0.0	0.0
39°	2785.6	1646.0	62.9	1.7	0.0	0.0	0.0	0.0	0.0
40°	2651.8	1515.6	54.4	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	2268.0	1169.1	37.4	0.6	0.0	0.0	0.0	0.0	0.0
45°	1814.4	857.3	23.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1440.7	578.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	1115.3	298.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	741.6	126.4	5.1	0.0	0.0	0.6	0.0	0.0	0.0
55°	336.2	65.8	2.3	0.0	0.6	0.6	0.6	0.0	0.0
57.5°	135.5	28.3	1.1	0.6	0.6	0.6	0.6	0.0	0.0
60°	42.0	7.9	0.6	0.6	1.1	1.1	0.6	0.0	0.0
62.5°	8.5	1.7	0.6	1.1	1.1	1.1	0.6	0.0	0.0
65°	2.8	0.6	0.6	1.1	1.1	1.1	1.1	0.0	0.0
67.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
70°	0.0	0.6	1.1	1.1	1.1	1.7	1.1	0.6	0.0
72.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
75°	0.0	0.6	1.1	1.1	1.7	1.7	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	0.0	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)