

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: P498309

Luminaire Tested: **LDA2B159024R30D010 2LBD1MMS-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: P498309  
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: LDA2B159024R30D010 2LBD1MMS-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

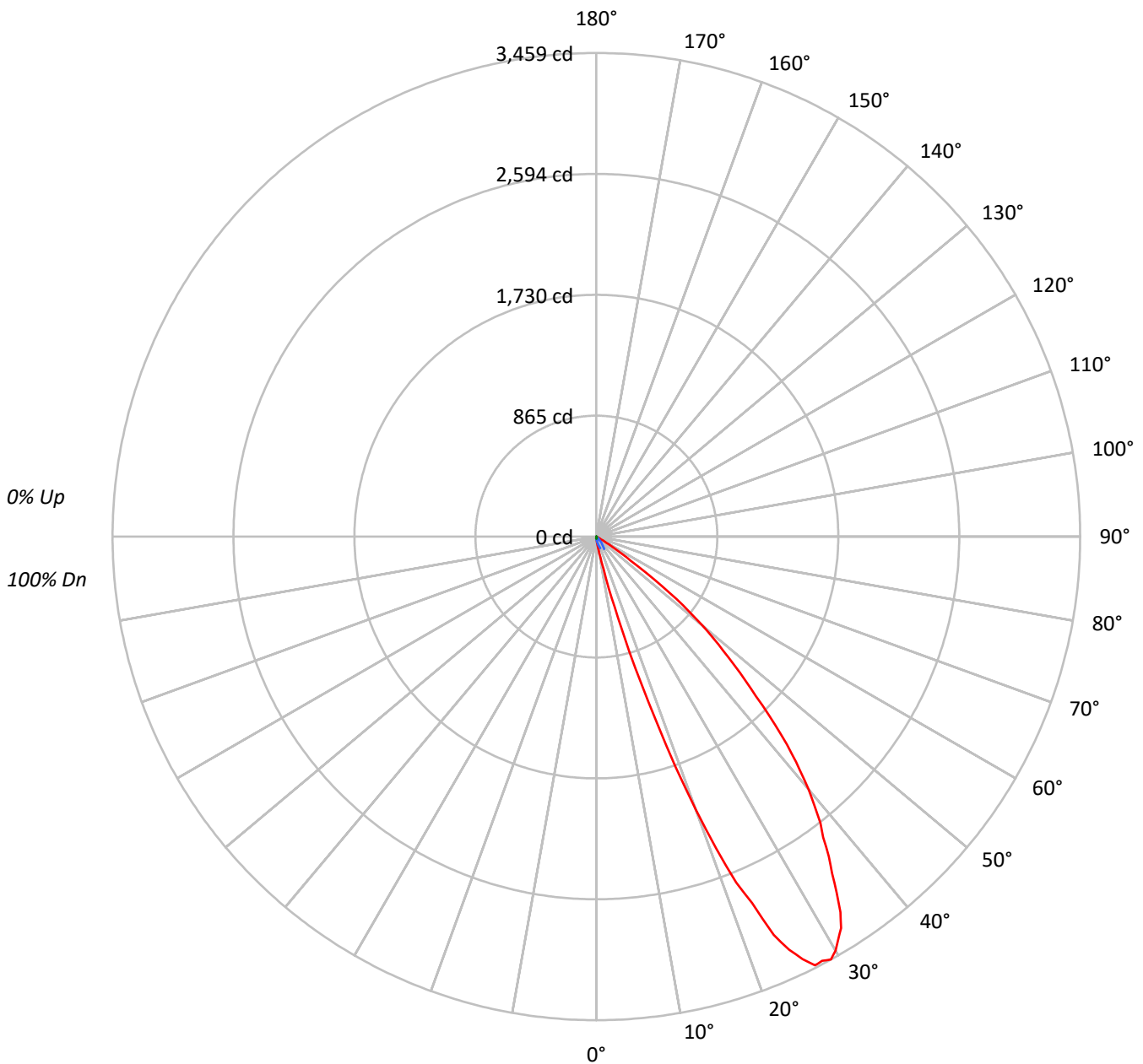
Lumens per Lamp: N/A  
Luminaire Lumens: 695.7 lumens  
Efficiency: N/A  
Efficacy: 49.3 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (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



— 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°	7696	7696	7696
5°	16739	6983	5002
10°	50298	6062	3306
15°	305029	4393	2554
20°	1092051	2363	1050
25°	1774792	817	0
30°	1947867	285	0
35°	1770111	0	0
40°	1519286	0	0
45°	1126118	0	0
50°	761471	0	0
55°	257271	430	0
60°	36805	987	0
65°	2918	1167	0
70°	0	1442	0
75°	0	2859	0
80°	0	2841	0
85°	0	5661	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.0	0.3
10°-20°	35.8	5.2
20°-30°	203.4	29.2
30°-40°	265.1	38.1
40°-50°	155.3	22.3
50°-60°	31.4	4.5
60°-70°	1.2	0.2
70°-80°	0.8	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°	241.3	34.7
0°-40°	506.4	72.8
0°-60°	693.0	99.6
0°-90°	695.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	695.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	34	24	14	11	10	5
15°	597	68	9	6	5	253
25°	3260	114	2	1	0	1442
35°	2939	84	0	0	0	1830
45°	1614	21	0	0	0	1261
55°	299	2	0	0	0	349
65°	2	0	1	1	0	7
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°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	21.2	19.7	18.7	16.1	14.6	13.6	13.1	12.6	12.1
5°	33.8	31.3	24.2	17.7	14.1	12.1	11.1	10.1	10.1
7.5°	58.0	46.9	31.8	18.7	13.1	10.6	9.6	8.1	7.6
10°	100.4	78.2	43.4	19.7	12.1	9.6	7.6	7.1	6.6
12.5°	235.5	142.7	55.0	19.7	10.6	8.1	6.6	6.1	5.5
15°	597.2	291.0	68.1	18.7	8.6	6.1	5.5	5.0	5.0
17.5°	1238.7	597.7	82.7	17.1	7.1	4.5	4.0	3.5	3.5
20°	2080.0	1071.3	96.8	14.6	4.5	3.0	2.5	2.0	2.0
21°	2389.7	1243.3	103.9	13.6	4.0	2.5	2.0	2.0	1.5
22°	2668.1	1401.2	107.9	13.1	3.0	2.0	2.0	1.5	1.5
23°	2847.7	1601.4	111.5	11.6	2.5	1.5	1.5	1.0	0.5
24°	3118.6	1758.3	113.0	10.6	2.0	1.5	1.0	0.5	0.5
25°	3260.3	1900.5	114.5	9.6	1.5	1.5	1.0	0.5	0.0
26°	3362.2	2013.0	120.0	9.1	1.5	1.0	1.0	0.5	0.0
27°	3441.9	2084.6	123.1	8.1	1.0	1.0	1.0	0.0	0.0
28°	3437.3	2136.5	120.5	7.1	1.0	1.0	0.5	0.0	0.0
29°	3459.0	2171.8	119.0	6.1	0.5	0.5	0.5	0.0	0.0
30°	3419.2	2174.9	113.5	5.5	0.5	0.5	0.5	0.0	0.0
31°	3358.6	2138.0	111.5	5.0	0.0	0.5	0.5	0.0	0.0
32°	3301.6	2121.4	104.9	4.0	0.0	0.5	0.5	0.0	0.0
33°	3203.8	2046.8	98.4	3.5	0.0	0.5	0.0	0.0	0.0
34°	3072.7	1973.6	92.3	3.0	0.0	0.5	0.0	0.0	0.0
35°	2939.0	1913.1	83.7	3.0	0.0	0.5	0.0	0.0	0.0
36°	2828.0	1803.1	77.7	2.5	0.0	0.5	0.0	0.0	0.0
37°	2693.4	1708.8	69.6	2.0	0.0	0.0	0.0	0.0	0.0
38°	2601.6	1576.2	63.6	2.0	0.0	0.0	0.0	0.0	0.0
39°	2478.0	1464.2	56.0	1.5	0.0	0.0	0.0	0.0	0.0
40°	2359.0	1348.2	48.4	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	2017.5	1040.0	33.3	0.5	0.0	0.0	0.0	0.0	0.0
45°	1614.0	762.6	20.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1281.6	515.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	992.1	265.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	659.7	112.5	4.5	0.0	0.0	0.5	0.0	0.0	0.0
55°	299.1	58.5	2.0	0.0	0.5	0.5	0.5	0.0	0.0
57.5°	120.5	25.2	1.0	0.5	0.5	0.5	0.5	0.0	0.0
60°	37.3	7.1	0.5	0.5	1.0	1.0	0.5	0.0	0.0
62.5°	7.6	1.5	0.5	1.0	1.0	1.0	0.5	0.0	0.0
65°	2.5	0.5	0.5	1.0	1.0	1.0	1.0	0.0	0.0
67.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
70°	0.0	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.0
72.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
75°	0.0	0.5	1.0	1.0	1.5	1.5	1.0	0.5	0.0
77.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
80°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	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	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
85°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.0	1.0	1.0	0.5	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)