

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: P500046

Luminaire Tested: **LDA2B208027R30D010 2LBDC1MMS-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: P500046  
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: LDA2B208027R30D010 2LBDC1MMS-30DEG TILT  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

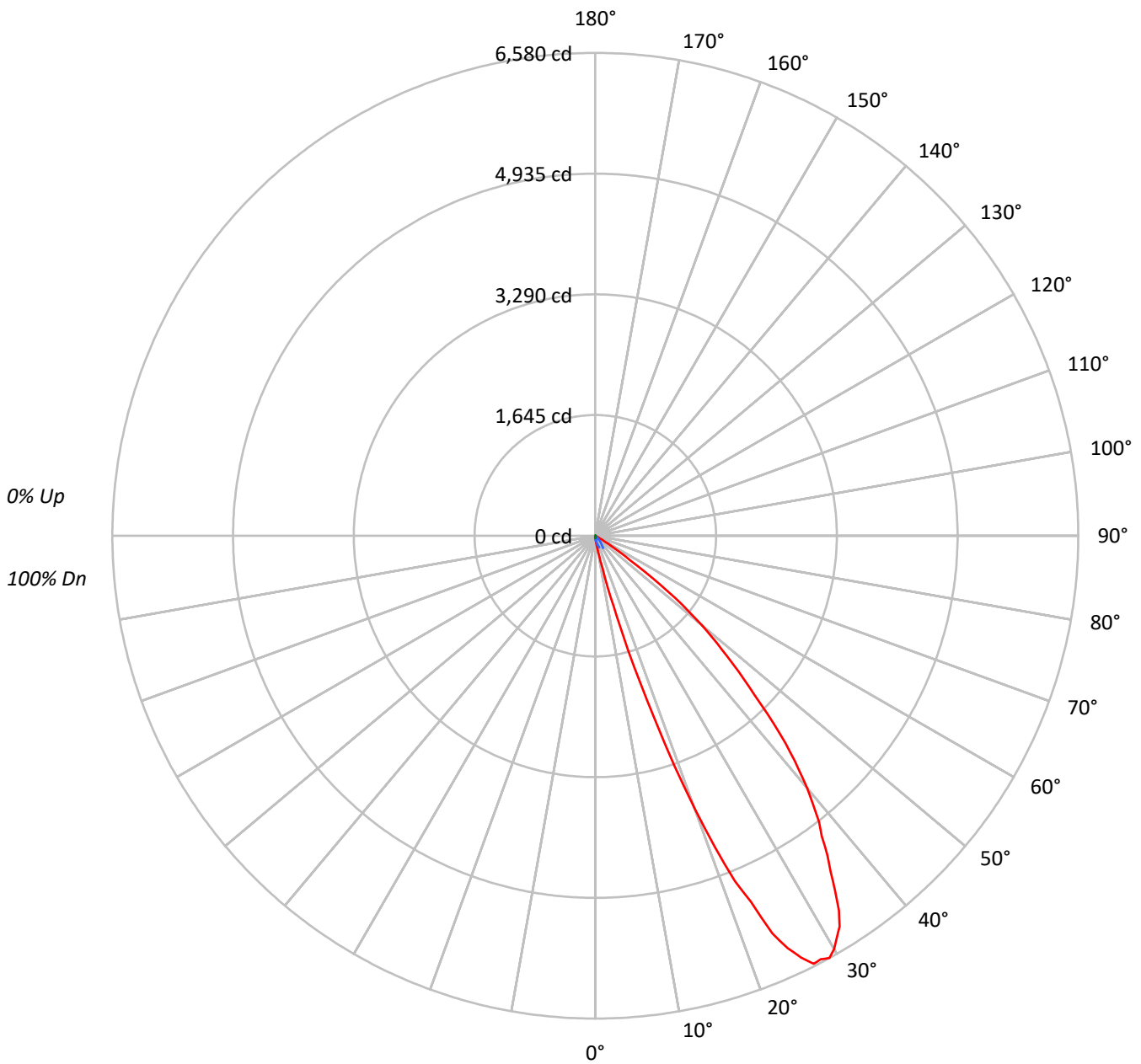
Lumens per Lamp: N/A  
Luminaire Lumens: 1323.5 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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

TEST NUMBER: P500046

CATALOG NUMBER: LDA2B208027R30D010 2LBDC1MMS-30DEG TILT

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



TEST NUMBER: P500046

CATALOG NUMBER: LDA2B208027R30D010 2LBDC1MMS-30DEG TILT

**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	57	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°	14653	14653	14653
5°	31844	13322	9509
10°	95636	11522	6262
15°	580230	8325	4903
20°	2077365	4515	1995
25°	3376040	1579	0
30°	3705232	570	0
35°	3367126	0	0
40°	2889992	0	0
45°	2142137	0	0
50°	1448491	0	0
55°	489339	860	0
60°	70057	1875	0
65°	5603	2218	0
70°	0	2741	0
75°	0	5528	0
80°	0	5398	0
85°	0	10755	0



TEST NUMBER: P500046

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.9	0.3
10°-20°	68.2	5.2
20°-30°	387.0	29.2
30°-40°	504.2	38.1
40°-50°	295.4	22.3
50°-60°	59.7	4.5
60°-70°	2.3	0.2
70°-80°	1.6	0.1
80°-90°	1.3	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°	459.0	34.7
0°-40°	963.3	72.8
0°-60°	1318.3	99.6
0°-90°	1323.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	64	46	27	21	19	10
15°	1136	130	16	11	10	481
25°	6202	218	3	2	0	2743
35°	5591	159	0	0	0	3481
45°	3070	39	0	0	0	2398
55°	569	4	1	1	0	664
65°	5	1	2	2	0	13
75°	0	2	3	2	0	0
85°	0	2	2	2	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°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
2.5°	40.3	37.4	35.5	30.7	27.8	25.9	24.9	24.0	23.0
5°	64.3	59.5	46.1	33.6	26.9	23.0	21.1	19.2	19.2
7.5°	110.3	89.2	60.4	35.5	24.9	20.1	18.2	15.4	14.4
10°	190.9	148.7	82.5	37.4	23.0	18.2	14.4	13.4	12.5
12.5°	448.1	271.5	104.6	37.4	20.1	15.4	12.5	11.5	10.6
15°	1136.0	553.6	129.5	35.5	16.3	11.5	10.6	9.6	9.6
17.5°	2356.4	1136.9	157.3	32.6	13.4	8.6	7.7	6.7	6.7
20°	3956.7	2037.8	184.2	27.8	8.6	5.8	4.8	3.8	3.8
21°	4545.8	2365.0	197.6	25.9	7.7	4.8	3.8	3.8	2.9
22°	5075.4	2665.3	205.3	24.9	5.8	3.8	3.8	2.9	2.9
23°	5416.9	3046.2	212.0	22.1	4.8	2.9	2.9	1.9	1.0
24°	5932.2	3344.6	214.9	20.1	3.8	2.9	1.9	1.0	1.0
25°	6201.8	3615.1	217.8	18.2	2.9	2.9	1.9	1.0	0.0
26°	6395.6	3829.1	228.3	17.3	2.9	1.9	1.9	1.0	0.0
27°	6547.2	3965.3	234.1	15.4	1.9	1.9	1.9	0.0	0.0
28°	6538.5	4064.1	229.3	13.4	1.9	1.9	1.0	0.0	0.0
29°	6579.8	4131.3	226.4	11.5	1.0	1.0	1.0	0.0	0.0
30°	6504.0	4137.1	215.9	10.6	1.0	1.0	1.0	0.0	0.0
31°	6388.8	4067.0	212.0	9.6	0.0	1.0	1.0	0.0	0.0
32°	6280.4	4035.4	199.6	7.7	0.0	1.0	1.0	0.0	0.0
33°	6094.3	3893.4	187.1	6.7	0.0	1.0	0.0	0.0	0.0
34°	5844.8	3754.2	175.6	5.8	0.0	1.0	0.0	0.0	0.0
35°	5590.6	3639.1	159.3	5.8	0.0	1.0	0.0	0.0	0.0
36°	5379.5	3430.0	147.8	4.8	0.0	1.0	0.0	0.0	0.0
37°	5123.4	3250.5	132.4	3.8	0.0	0.0	0.0	0.0	0.0
38°	4948.7	2998.2	120.9	3.8	0.0	0.0	0.0	0.0	0.0
39°	4713.7	2785.2	106.5	2.9	0.0	0.0	0.0	0.0	0.0
40°	4487.3	2564.6	92.1	1.9	0.0	0.0	0.0	0.0	0.0
42.5°	3837.7	1978.3	63.3	1.0	0.0	0.0	0.0	0.0	0.0
45°	3070.2	1450.7	39.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2437.9	979.6	24.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	1887.2	504.7	14.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1254.9	214.0	8.6	0.0	0.0	1.0	0.0	0.0	0.0
55°	568.9	111.3	3.8	0.0	1.0	1.0	1.0	0.0	0.0
57.5°	229.3	48.0	1.9	1.0	1.0	1.0	1.0	0.0	0.0
60°	71.0	13.4	1.0	1.0	1.9	1.9	1.0	0.0	0.0
62.5°	14.4	2.9	1.0	1.9	1.9	1.9	1.0	0.0	0.0
65°	4.8	1.0	1.0	1.9	1.9	1.9	1.9	0.0	0.0
67.5°	1.0	1.0	1.0	1.9	1.9	1.9	1.9	1.0	0.0
70°	0.0	1.0	1.9	1.9	1.9	2.9	1.9	1.0	0.0
72.5°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	1.0	0.0
75°	0.0	1.0	1.9	1.9	2.9	2.9	1.9	1.0	0.0
77.5°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	1.0	0.0
80°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	1.0	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	1.0	1.9	1.9	1.9	1.9	1.9	1.0	0.0
85°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	0.0	0.0
87.5°	0.0	1.0	1.9	1.9	1.9	1.9	1.0	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)