

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: P500478

Luminaire Tested: **LDA2B208035R30D010 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: P500478  
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: LDA2B208035R30D010 2LBDC1MMS-30DEG TILT  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

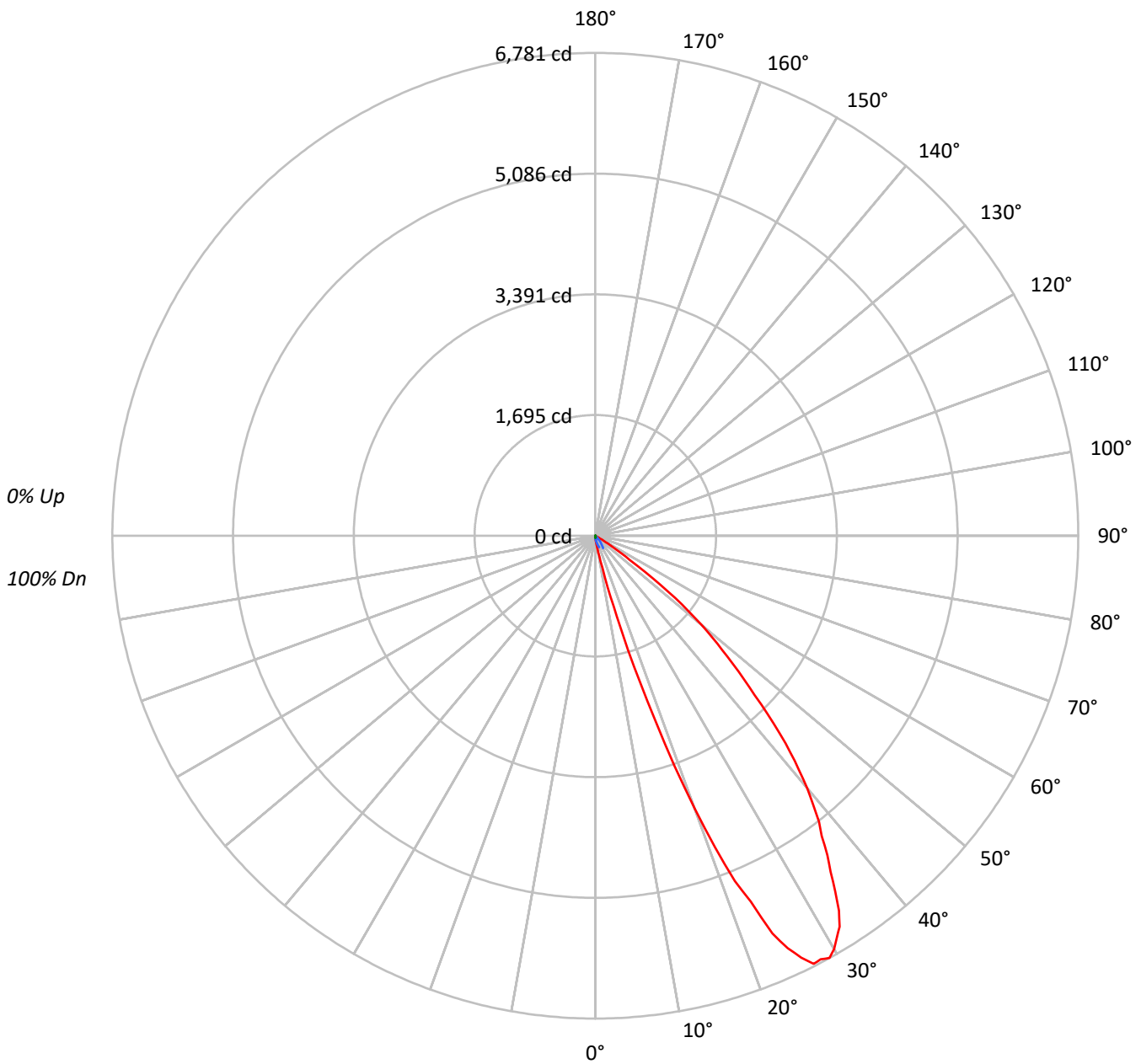
Lumens per Lamp: N/A  
Luminaire Lumens: 1364.0 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (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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CATALOG NUMBER: LDA2B208035R30D010 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				
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°	15146	15146	15146
5°	32785	13718	9806
10°	98591	11873	6463
15°	597953	8581	5057
20°	2140893	4673	2100
25°	3479306	1633	0
30°	3818542	570	0
35°	3470117	0	0
40°	2978354	0	0
45°	2207652	0	0
50°	1492778	0	0
55°	504306	860	0
60°	72228	1973	0
65°	5720	2335	0
70°	0	2885	0
75°	0	5719	0
80°	0	5682	0
85°	0	11321	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.0	0.3
10°-20°	70.3	5.2
20°-30°	398.8	29.2
30°-40°	519.7	38.1
40°-50°	304.4	22.3
50°-60°	61.5	4.5
60°-70°	2.4	0.2
70°-80°	1.7	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°	473.1	34.7
0°-40°	992.8	72.8
0°-60°	1358.6	99.6
0°-90°	1364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	66	48	28	22	20	10
15°	1171	134	17	11	10	495
25°	6392	224	3	2	0	2826
35°	5762	164	0	0	0	3588
45°	3164	40	0	0	0	2472
55°	586	4	1	1	0	684
65°	5	1	2	2	0	14
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°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
2.5°	41.5	38.6	36.6	31.6	28.7	26.7	25.7	24.7	23.7
5°	66.2	61.3	47.5	34.6	27.7	23.7	21.8	19.8	19.8
7.5°	113.7	92.0	62.3	36.6	25.7	20.8	18.8	15.8	14.8
10°	196.8	153.3	85.0	38.6	23.7	18.8	14.8	13.8	12.9
12.5°	461.8	279.8	107.8	38.6	20.8	15.8	12.9	11.9	10.9
15°	1170.7	570.5	133.5	36.6	16.8	11.9	10.9	9.9	9.9
17.5°	2428.4	1171.7	162.2	33.6	13.8	8.9	7.9	6.9	6.9
20°	4077.7	2100.2	189.8	28.7	8.9	5.9	4.9	4.0	4.0
21°	4684.8	2437.3	203.7	26.7	7.9	4.9	4.0	4.0	3.0
22°	5230.6	2746.8	211.6	25.7	5.9	4.0	4.0	3.0	3.0
23°	5582.6	3139.4	218.5	22.7	4.9	3.0	3.0	2.0	1.0
24°	6113.6	3446.9	221.5	20.8	4.0	3.0	2.0	1.0	1.0
25°	6391.5	3725.7	224.5	18.8	3.0	3.0	2.0	1.0	0.0
26°	6591.2	3946.2	235.3	17.8	3.0	2.0	2.0	1.0	0.0
27°	6747.4	4086.6	241.3	15.8	2.0	2.0	2.0	0.0	0.0
28°	6738.5	4188.5	236.3	13.8	2.0	2.0	1.0	0.0	0.0
29°	6781.0	4257.7	233.4	11.9	1.0	1.0	1.0	0.0	0.0
30°	6702.9	4263.6	222.5	10.9	1.0	1.0	1.0	0.0	0.0
31°	6584.3	4191.4	218.5	9.9	0.0	1.0	1.0	0.0	0.0
32°	6472.5	4158.8	205.7	7.9	0.0	1.0	1.0	0.0	0.0
33°	6280.7	4012.5	192.8	6.9	0.0	1.0	0.0	0.0	0.0
34°	6023.6	3869.1	180.9	5.9	0.0	1.0	0.0	0.0	0.0
35°	5761.6	3750.4	164.1	5.9	0.0	1.0	0.0	0.0	0.0
36°	5544.1	3534.9	152.3	4.9	0.0	1.0	0.0	0.0	0.0
37°	5280.1	3350.0	136.5	4.0	0.0	0.0	0.0	0.0	0.0
38°	5100.1	3089.9	124.6	4.0	0.0	0.0	0.0	0.0	0.0
39°	4857.9	2870.4	109.8	3.0	0.0	0.0	0.0	0.0	0.0
40°	4624.5	2643.0	94.9	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	3955.1	2038.9	65.3	1.0	0.0	0.0	0.0	0.0	0.0
45°	3164.1	1495.0	40.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2512.5	1009.5	25.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	1944.9	520.1	14.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1293.3	220.5	8.9	0.0	0.0	1.0	0.0	0.0	0.0
55°	586.3	114.7	4.0	0.0	1.0	1.0	1.0	0.0	0.0
57.5°	236.3	49.4	2.0	1.0	1.0	1.0	1.0	0.0	0.0
60°	73.2	13.8	1.0	1.0	2.0	2.0	1.0	0.0	0.0
62.5°	14.8	3.0	1.0	2.0	2.0	2.0	1.0	0.0	0.0
65°	4.9	1.0	1.0	2.0	2.0	2.0	2.0	0.0	0.0
67.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0
70°	0.0	1.0	2.0	2.0	2.0	3.0	2.0	1.0	0.0
72.5°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
75°	0.0	1.0	2.0	2.0	3.0	3.0	2.0	1.0	0.0
77.5°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
80°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	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	2.0	2.0	2.0	2.0	2.0	1.0	0.0
85°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0
87.5°	0.0	1.0	2.0	2.0	2.0	2.0	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)