

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: P499997

Luminaire Tested: **LDA2B208027R20D010 2LBD1MW-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: P499997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B208027R20D010 2LBD1MW-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**

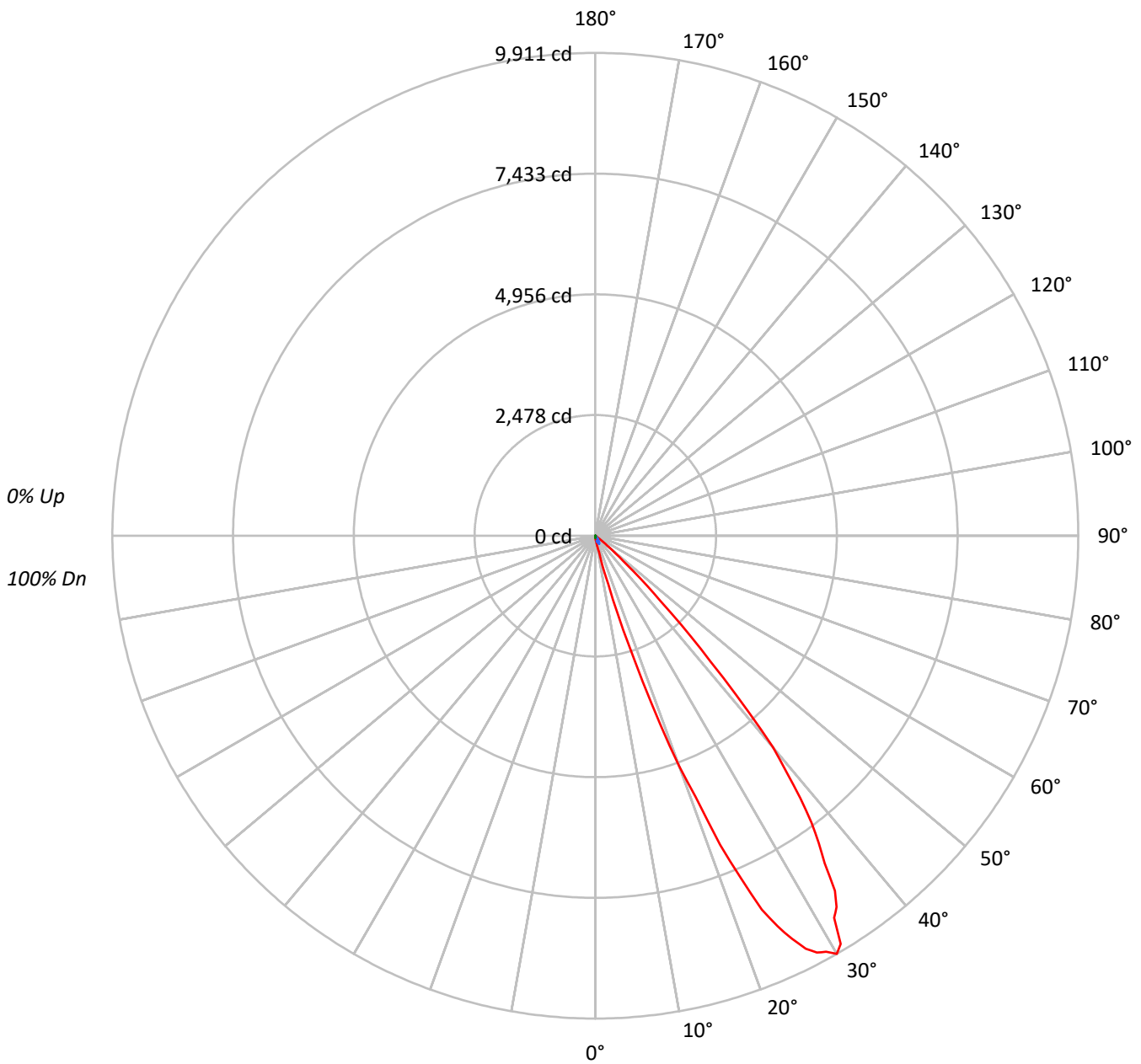
Lumens per Lamp: N/A  
Luminaire Lumens: 1251.4 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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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**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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	19882	19882	19882
5°	38035	17581	12827
10°	90826	15380	8667
15°	529255	12258	3422
20°	2640034	7560	998
25°	4813870	2613	0
30°	5646092	0	0
35°	4941736	0	0
40°	3649377	0	0
45°	1315410	0	0
50°	273933	0	0
55°	62705	860	0
60°	19833	987	0
65°	4436	2218	0
70°	0	2741	1442
75°	0	3622	0
80°	0	5398	0
85°	0	10755	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.6	0.4
10°-20°	68.8	5.5
20°-30°	463.4	37.0
30°-40°	541.4	43.3
40°-50°	157.9	12.6
50°-60°	10.6	0.8
60°-70°	2.0	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°	536.7	42.9
0°-40°	1078.1	86.2
0°-60°	1246.6	99.6
0°-90°	1251.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	77	56	36	30	26	10
15°	1036	117	24	12	7	541
25°	8843	181	5	0	0	3915
35°	8205	98	0	0	0	5041
45°	1885	20	0	0	0	1737
55°	73	4	1	1	0	93
65°	4	2	2	2	0	6
75°	0	2	2	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°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
2.5°	51.8	51.8	46.1	41.3	37.4	35.5	34.5	32.6	31.7
5°	76.8	67.2	55.6	43.2	35.5	32.6	29.7	26.9	25.9
7.5°	112.3	97.9	67.2	44.1	33.6	28.8	25.9	23.0	21.1
10°	181.3	141.0	82.5	44.1	30.7	24.9	21.1	18.2	17.3
12.5°	334.8	215.9	98.8	43.2	27.8	21.1	16.3	14.4	11.5
15°	1036.2	447.1	117.1	41.3	24.0	16.3	12.5	7.7	6.7
17.5°	2679.7	1043.9	130.5	36.5	19.2	11.5	5.8	4.8	4.8
20°	5028.4	1893.0	149.7	31.7	14.4	7.7	3.8	2.9	1.9
21°	5736.4	2316.1	159.3	29.7	12.5	4.8	2.9	1.0	1.0
22°	6836.9	2777.5	166.9	27.8	10.6	2.9	1.9	1.0	0.0
23°	7620.8	3072.1	174.6	24.9	7.7	2.9	1.0	0.0	0.0
24°	8404.6	3447.2	179.4	23.0	6.7	1.9	1.0	0.0	0.0
25°	8843.1	3760.0	181.3	21.1	4.8	1.0	0.0	0.0	0.0
26°	9203.8	3969.2	182.3	19.2	2.9	0.0	0.0	0.0	0.0
27°	9512.7	4211.9	180.4	17.3	2.9	0.0	0.0	0.0	0.0
28°	9688.3	4252.2	177.5	15.4	1.0	0.0	0.0	0.0	0.0
29°	9764.1	4203.3	168.9	13.4	1.0	0.0	0.0	0.0	0.0
30°	9910.9	4157.2	160.2	12.5	0.0	0.0	0.0	0.0	0.0
31°	9775.6	4004.7	149.7	10.6	0.0	0.0	0.0	0.0	0.0
32°	9246.0	3876.1	137.2	8.6	0.0	0.0	0.0	0.0	0.0
33°	9087.7	3612.3	123.8	7.7	0.0	0.0	0.0	0.0	0.0
34°	8789.3	3219.8	112.3	6.7	0.0	0.0	0.0	0.0	0.0
35°	8205.0	2895.6	97.9	5.8	0.0	0.0	0.0	0.0	0.0
36°	7797.3	2525.2	85.4	4.8	0.0	0.0	0.0	0.0	0.0
37°	7370.3	2201.9	75.8	3.8	0.0	0.0	0.0	0.0	0.0
38°	6839.8	1862.3	64.3	2.9	0.0	0.0	0.0	0.0	0.0
39°	6221.9	1538.9	54.7	2.9	0.0	0.0	0.0	0.0	0.0
40°	5666.4	1240.5	47.0	1.9	0.0	0.0	0.0	0.0	0.0
42.5°	3497.1	708.1	27.8	1.9	0.0	0.0	0.0	0.0	0.0
45°	1885.3	429.8	20.1	1.0	0.0	0.0	0.0	0.0	0.0
47.5°	868.3	200.5	14.4	1.0	0.0	0.0	0.0	0.0	0.0
50°	356.9	89.2	10.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	128.6	49.9	6.7	0.0	0.0	1.0	0.0	0.0	0.0
55°	72.9	28.8	3.8	1.0	1.0	1.0	1.0	0.0	0.0
57.5°	34.5	16.3	1.0	1.0	1.0	1.0	1.0	0.0	0.0
60°	20.1	8.6	1.0	1.0	1.0	1.9	1.0	0.0	0.0
62.5°	9.6	2.9	1.0	1.9	1.9	1.9	1.9	1.0	0.0
65°	3.8	1.0	1.9	1.9	1.9	2.9	1.9	1.0	0.0
67.5°	1.0	1.0	1.9	1.9	1.9	2.9	1.9	1.0	1.0
70°	0.0	1.0	1.9	1.9	1.9	2.9	1.9	1.0	1.0
72.5°	0.0	1.0	1.9	1.9	1.9	2.9	1.9	1.0	1.0
75°	0.0	1.0	1.9	1.9	1.9	1.9	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	1.0	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)