

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: P500223

Luminaire Tested: **LDA2B208030R20D010 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: P500223
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: LDA2B208030R20D010 2LBDC1MMS-30DEG TILT
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

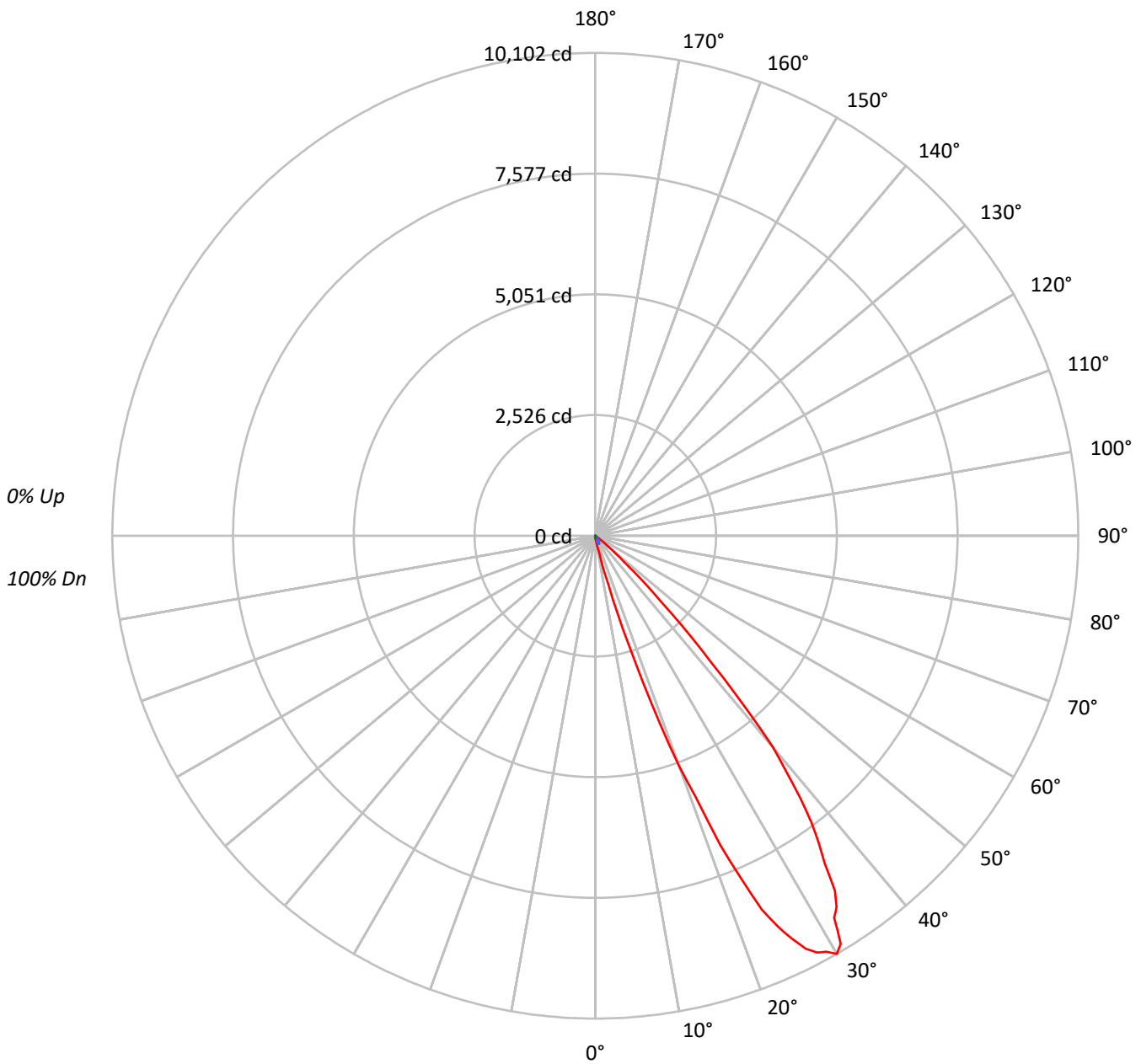
Lumens per Lamp: N/A
Luminaire Lumens: 1275.6 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	20277	20277	20277
5°	38728	17928	13075
10°	92580	15680	8817
15°	539471	12463	3473
20°	2690909	7718	1050
25°	4906684	2667	0
30°	5754959	0	0
35°	5037018	0	0
40°	3719706	0	0
45°	1340737	0	0
50°	279229	0	0
55°	63909	860	0
60°	20228	987	0
65°	4553	2335	0
70°	0	2885	1442
75°	0	3812	0
80°	0	5682	0
85°	0	11321	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.4
10°-20°	70.1	5.5
20°-30°	472.3	37.0
30°-40°	551.8	43.3
40°-50°	160.9	12.6
50°-60°	10.8	0.8
60°-70°	2.0	0.2
70°-80°	1.7	0.1
80°-90°	1.4	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°	547.1	42.9
0°-40°	1098.9	86.1
0°-60°	1270.6	99.6
0°-90°	1275.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	78	57	36	30	26	11
15°	1056	119	24	13	7	551
25°	9014	185	5	0	0	3991
35°	8363	100	0	0	0	5138
45°	1922	20	0	0	0	1771
55°	74	4	1	1	0	95
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°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	52.8	52.8	46.9	42.1	38.1	36.2	35.2	33.2	32.3
5°	78.2	68.5	56.7	44.0	36.2	33.2	30.3	27.4	26.4
7.5°	114.4	99.7	68.5	45.0	34.2	29.3	26.4	23.5	21.5
10°	184.8	143.8	84.1	45.0	31.3	25.4	21.5	18.6	17.6
12.5°	341.3	220.0	100.7	44.0	28.4	21.5	16.6	14.7	11.7
15°	1056.2	455.7	119.3	42.1	24.4	16.6	12.7	7.8	6.8
17.5°	2731.4	1064.0	133.0	37.2	19.6	11.7	5.9	4.9	4.9
20°	5125.3	1929.5	152.6	32.3	14.7	7.8	3.9	2.9	2.0
21°	5847.0	2360.7	162.3	30.3	12.7	4.9	2.9	1.0	1.0
22°	6968.7	2831.1	170.2	28.4	10.8	2.9	2.0	1.0	0.0
23°	7767.7	3131.3	178.0	25.4	7.8	2.9	1.0	0.0	0.0
24°	8566.7	3513.7	182.9	23.5	6.8	2.0	1.0	0.0	0.0
25°	9013.6	3832.5	184.8	21.5	4.9	1.0	0.0	0.0	0.0
26°	9381.3	4045.7	185.8	19.6	2.9	0.0	0.0	0.0	0.0
27°	9696.2	4293.1	183.9	17.6	2.9	0.0	0.0	0.0	0.0
28°	9875.1	4334.2	180.9	15.6	1.0	0.0	0.0	0.0	0.0
29°	9952.4	4284.3	172.1	13.7	1.0	0.0	0.0	0.0	0.0
30°	10102.0	4237.4	163.3	12.7	0.0	0.0	0.0	0.0	0.0
31°	9964.1	4081.9	152.6	10.8	0.0	0.0	0.0	0.0	0.0
32°	9424.3	3950.8	139.8	8.8	0.0	0.0	0.0	0.0	0.0
33°	9262.9	3681.9	126.2	7.8	0.0	0.0	0.0	0.0	0.0
34°	8958.8	3281.9	114.4	6.8	0.0	0.0	0.0	0.0	0.0
35°	8363.2	2951.4	99.7	5.9	0.0	0.0	0.0	0.0	0.0
36°	7947.6	2573.9	87.0	4.9	0.0	0.0	0.0	0.0	0.0
37°	7512.4	2244.3	77.3	3.9	0.0	0.0	0.0	0.0	0.0
38°	6971.6	1898.2	65.5	2.9	0.0	0.0	0.0	0.0	0.0
39°	6341.9	1568.6	55.7	2.9	0.0	0.0	0.0	0.0	0.0
40°	5775.6	1264.5	47.9	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	3564.5	721.7	28.4	2.0	0.0	0.0	0.0	0.0	0.0
45°	1921.6	438.1	20.5	1.0	0.0	0.0	0.0	0.0	0.0
47.5°	885.0	204.4	14.7	1.0	0.0	0.0	0.0	0.0	0.0
50°	363.8	90.9	10.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	131.0	50.9	6.8	0.0	0.0	1.0	0.0	0.0	0.0
55°	74.3	29.3	3.9	1.0	1.0	1.0	1.0	0.0	0.0
57.5°	35.2	16.6	1.0	1.0	1.0	1.0	1.0	0.0	0.0
60°	20.5	8.8	1.0	1.0	1.0	2.0	1.0	0.0	0.0
62.5°	9.8	2.9	1.0	2.0	2.0	2.0	2.0	1.0	0.0
65°	3.9	1.0	2.0	2.0	2.0	2.9	2.0	1.0	0.0
67.5°	1.0	1.0	2.0	2.0	2.0	2.9	2.0	1.0	1.0
70°	0.0	1.0	2.0	2.0	2.0	2.9	2.0	1.0	1.0
72.5°	0.0	1.0	2.0	2.0	2.0	2.9	2.0	1.0	1.0
75°	0.0	1.0	2.0	2.0	2.0	2.0	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	1.0	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)