

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: P500456

Luminaire Tested: **LDA2B208035R20D010 2LBDLC1MMS-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: P500456
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: LDA2B208035R20D010 2LBDLC1MMS-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

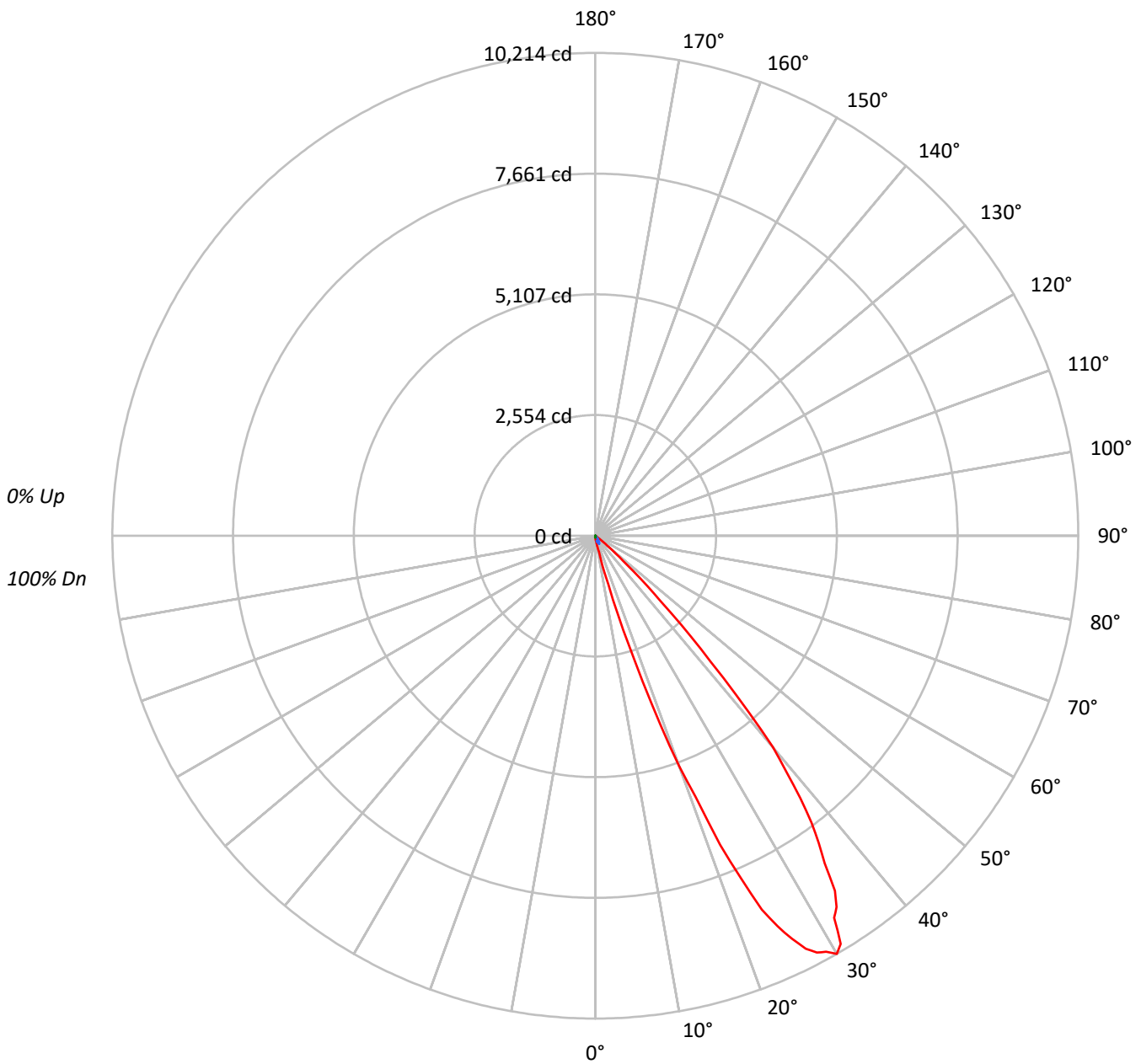
Lumens per Lamp: N/A
Luminaire Lumens: 1289.8 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P500456

CATALOG NUMBER: LDA2B208035R20D010 2LBDLC1MMS-30DEG TILT

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P500456

CATALOG NUMBER: LDA2B208035R20D010 2LBDLC1MMS-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20475	20475	20475
5°	39174	18126	13223
10°	93632	15831	8917
15°	545447	12616	3524
20°	2720783	7770	1050
25°	4961120	2667	0
30°	5818821	0	0
35°	5092910	0	0
40°	3760989	0	0
45°	1355668	0	0
50°	282299	0	0
55°	64597	860	0
60°	20524	987	0
65°	4670	2335	0
70°	0	2885	1442
75°	0	3812	0
80°	0	5682	0
85°	0	11321	0



TEST NUMBER: P500456

CATALOG NUMBER: LDA2B208035R20D010 2LBDLC1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.4
10°-20°	70.9	5.5
20°-30°	477.6	37.0
30°-40°	558.0	43.3
40°-50°	162.7	12.6
50°-60°	10.9	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°	553.1	42.9
0°-40°	1111.1	86.1
0°-60°	1284.7	99.6
0°-90°	1289.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1289.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	79	57	37	31	27	11
15°	1068	121	25	13	7	557
25°	9114	187	5	0	0	4035
35°	8456	101	0	0	0	5195
45°	1943	21	0	0	0	1790
55°	75	4	1	1	0	96
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	



TEST NUMBER: P500456

CATALOG NUMBER: LDA2B208035R20D010 2LBDLC1MMS-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
2.5°	53.4	53.4	47.5	42.5	38.6	36.6	35.6	33.6	32.6
5°	79.1	69.2	57.3	44.5	36.6	33.6	30.7	27.7	26.7
7.5°	115.7	100.9	69.2	45.5	34.6	29.7	26.7	23.7	21.8
10°	186.9	145.4	85.0	45.5	31.6	25.7	21.8	18.8	17.8
12.5°	345.1	222.5	101.8	44.5	28.7	21.8	16.8	14.8	11.9
15°	1067.9	460.8	120.6	42.5	24.7	16.8	12.9	7.9	6.9
17.5°	2761.7	1075.8	134.5	37.6	19.8	11.9	5.9	4.9	4.9
20°	5182.2	1950.9	154.2	32.6	14.8	7.9	4.0	3.0	2.0
21°	5911.9	2386.9	164.1	30.7	12.9	4.9	3.0	1.0	1.0
22°	7046.0	2862.5	172.0	28.7	10.9	3.0	2.0	1.0	0.0
23°	7853.9	3166.1	180.0	25.7	7.9	3.0	1.0	0.0	0.0
24°	8661.7	3552.7	184.9	23.7	6.9	2.0	1.0	0.0	0.0
25°	9113.6	3875.0	186.9	21.8	4.9	1.0	0.0	0.0	0.0
26°	9485.4	4090.6	187.9	19.8	3.0	0.0	0.0	0.0	0.0
27°	9803.7	4340.7	185.9	17.8	3.0	0.0	0.0	0.0	0.0
28°	9984.7	4382.3	182.9	15.8	1.0	0.0	0.0	0.0	0.0
29°	10062.8	4331.8	174.0	13.8	1.0	0.0	0.0	0.0	0.0
30°	10214.1	4284.4	165.1	12.9	0.0	0.0	0.0	0.0	0.0
31°	10074.7	4127.2	154.2	10.9	0.0	0.0	0.0	0.0	0.0
32°	9528.9	3994.7	141.4	8.9	0.0	0.0	0.0	0.0	0.0
33°	9365.7	3722.8	127.6	7.9	0.0	0.0	0.0	0.0	0.0
34°	9058.2	3318.3	115.7	6.9	0.0	0.0	0.0	0.0	0.0
35°	8456.0	2984.1	100.9	5.9	0.0	0.0	0.0	0.0	0.0
36°	8035.8	2602.5	88.0	4.9	0.0	0.0	0.0	0.0	0.0
37°	7595.8	2269.2	78.1	4.0	0.0	0.0	0.0	0.0	0.0
38°	7049.0	1919.2	66.2	3.0	0.0	0.0	0.0	0.0	0.0
39°	6412.2	1586.0	56.4	3.0	0.0	0.0	0.0	0.0	0.0
40°	5839.7	1278.5	48.5	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	3604.1	729.7	28.7	2.0	0.0	0.0	0.0	0.0	0.0
45°	1943.0	443.0	20.8	1.0	0.0	0.0	0.0	0.0	0.0
47.5°	894.8	206.7	14.8	1.0	0.0	0.0	0.0	0.0	0.0
50°	367.8	92.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	132.5	51.4	6.9	0.0	0.0	1.0	0.0	0.0	0.0
55°	75.1	29.7	4.0	1.0	1.0	1.0	1.0	0.0	0.0
57.5°	35.6	16.8	1.0	1.0	1.0	1.0	1.0	0.0	0.0
60°	20.8	8.9	1.0	1.0	1.0	2.0	1.0	0.0	0.0
62.5°	9.9	3.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0
65°	4.0	1.0	2.0	2.0	2.0	3.0	2.0	1.0	0.0
67.5°	1.0	1.0	2.0	2.0	2.0	3.0	2.0	1.0	1.0
70°	0.0	1.0	2.0	2.0	2.0	3.0	2.0	1.0	1.0
72.5°	0.0	1.0	2.0	2.0	2.0	3.0	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



TEST NUMBER: P500456

CATALOG NUMBER: LDA2B208035R20D010 2LBDLC1MMS-30DEG TILT

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)