

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: P494644

Luminaire Tested: **LDA2B108030R30D010 2LBDC1MB-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: P494644
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: LDA2B108030R30D010 2LBDC1MB-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

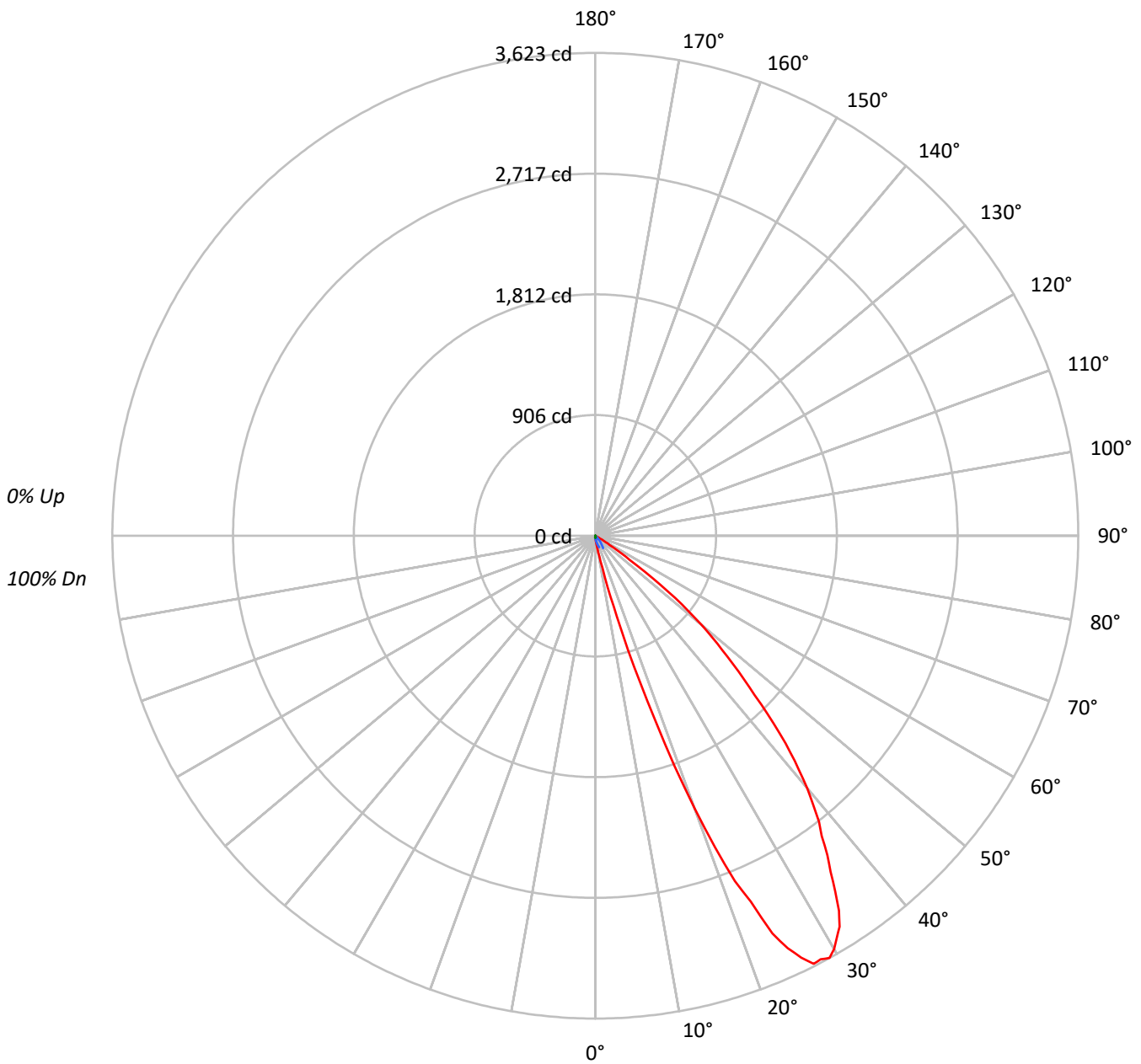
Lumens per Lamp: N/A
Luminaire Lumens: 728.8 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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

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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	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°	8091	8091	8091
5°	17532	7330	5250
10°	52652	6362	3457
15°	319484	4597	2707
20°	1143819	2520	1103
25°	1858896	871	0
30°	2040156	285	0
35°	1854009	0	0
40°	1591289	0	0
45°	1179494	0	0
50°	797545	0	0
55°	269485	430	0
60°	38581	1085	0
65°	3035	1284	0
70°	0	1587	0
75°	0	3050	0
80°	0	3125	0
85°	0	6227	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.3
10°-20°	37.5	5.2
20°-30°	213.1	29.2
30°-40°	277.6	38.1
40°-50°	162.6	22.3
50°-60°	32.8	4.5
60°-70°	1.3	0.2
70°-80°	0.9	0.1
80°-90°	0.7	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°	252.8	34.7
0°-40°	530.4	72.8
0°-60°	725.9	99.6
0°-90°	728.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	35	25	15	12	11	6
15°	626	71	9	6	5	265
25°	3415	120	2	1	0	1510
35°	3078	88	0	0	0	1917
45°	1690	22	0	0	0	1321
55°	313	2	0	0	0	365
65°	3	0	1	1	0	7
75°	0	1	2	1	0	0
85°	0	1	1	1	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	22.2	20.6	19.5	16.9	15.3	14.3	13.7	13.2	12.7
5°	35.4	32.8	25.4	18.5	14.8	12.7	11.6	10.6	10.6
7.5°	60.8	49.1	33.3	19.5	13.7	11.1	10.0	8.5	7.9
10°	105.1	81.9	45.4	20.6	12.7	10.0	7.9	7.4	6.9
12.5°	246.7	149.5	57.6	20.6	11.1	8.5	6.9	6.3	5.8
15°	625.5	304.8	71.3	19.5	9.0	6.3	5.8	5.3	5.3
17.5°	1297.5	626.0	86.6	18.0	7.4	4.8	4.2	3.7	3.7
20°	2178.6	1122.1	101.4	15.3	4.8	3.2	2.6	2.1	2.1
21°	2503.0	1302.2	108.8	14.3	4.2	2.6	2.1	2.1	1.6
22°	2794.6	1467.6	113.1	13.7	3.2	2.1	2.1	1.6	1.6
23°	2982.7	1677.3	116.8	12.2	2.6	1.6	1.6	1.1	0.5
24°	3266.4	1841.6	118.3	11.1	2.1	1.6	1.1	0.5	0.5
25°	3414.8	1990.6	119.9	10.0	1.6	1.6	1.1	0.5	0.0
26°	3521.5	2108.4	125.7	9.5	1.6	1.1	1.1	0.5	0.0
27°	3605.0	2183.4	128.9	8.5	1.1	1.1	1.1	0.0	0.0
28°	3600.3	2237.8	126.3	7.4	1.1	1.1	0.5	0.0	0.0
29°	3623.0	2274.8	124.7	6.3	0.5	0.5	0.5	0.0	0.0
30°	3581.2	2278.0	118.9	5.8	0.5	0.5	0.5	0.0	0.0
31°	3517.8	2239.4	116.8	5.3	0.0	0.5	0.5	0.0	0.0
32°	3458.1	2222.0	109.9	4.2	0.0	0.5	0.5	0.0	0.0
33°	3355.7	2143.8	103.0	3.7	0.0	0.5	0.0	0.0	0.0
34°	3218.3	2067.2	96.7	3.2	0.0	0.5	0.0	0.0	0.0
35°	3078.3	2003.8	87.7	3.2	0.0	0.5	0.0	0.0	0.0
36°	2962.1	1888.6	81.4	2.6	0.0	0.5	0.0	0.0	0.0
37°	2821.0	1789.8	72.9	2.1	0.0	0.0	0.0	0.0	0.0
38°	2724.9	1650.9	66.6	2.1	0.0	0.0	0.0	0.0	0.0
39°	2595.5	1533.6	58.6	1.6	0.0	0.0	0.0	0.0	0.0
40°	2470.8	1412.1	50.7	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	2113.1	1089.3	34.9	0.5	0.0	0.0	0.0	0.0	0.0
45°	1690.5	798.8	21.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1342.4	539.4	13.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	1039.1	277.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	691.0	117.8	4.8	0.0	0.0	0.5	0.0	0.0	0.0
55°	313.3	61.3	2.1	0.0	0.5	0.5	0.5	0.0	0.0
57.5°	126.3	26.4	1.1	0.5	0.5	0.5	0.5	0.0	0.0
60°	39.1	7.4	0.5	0.5	1.1	1.1	0.5	0.0	0.0
62.5°	7.9	1.6	0.5	1.1	1.1	1.1	0.5	0.0	0.0
65°	2.6	0.5	0.5	1.1	1.1	1.1	1.1	0.0	0.0
67.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	0.5	0.0
70°	0.0	0.5	1.1	1.1	1.1	1.6	1.1	0.5	0.0
72.5°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
75°	0.0	0.5	1.1	1.1	1.6	1.6	1.1	0.5	0.0
77.5°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
80°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	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	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
85°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.0	0.0
87.5°	0.0	0.5	1.1	1.1	1.1	1.1	0.5	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)