

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: P494851

Luminaire Tested: **LDA2B108035R30D010 2LBD1MB-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: P494851  
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: LDA2B108035R30D010 2LBD1MB-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

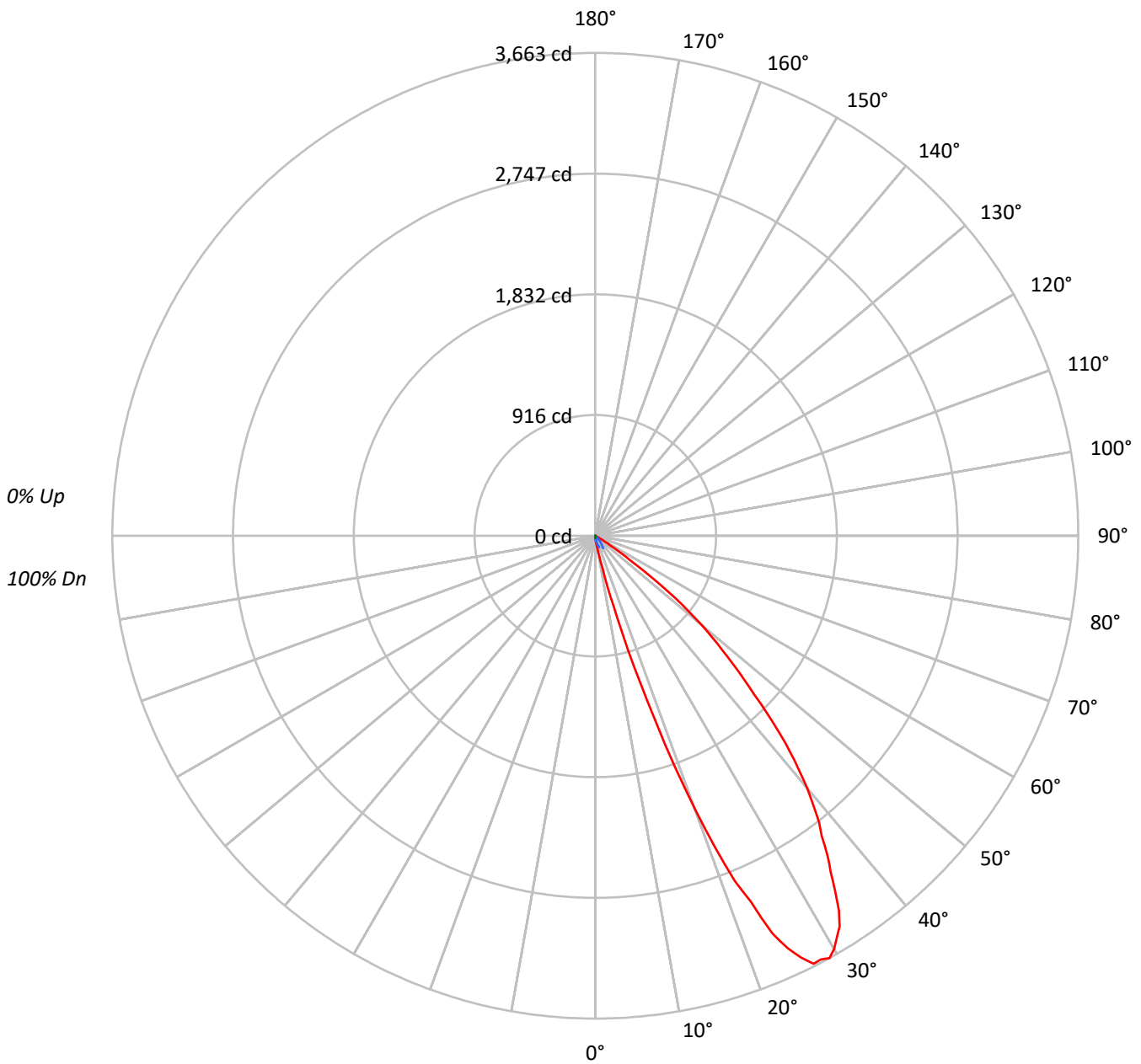
Lumens per Lamp: N/A  
Luminaire Lumens: 736.8 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	8190	8190	8190
5°	17730	7429	5299
10°	53253	6412	3457
15°	323008	4648	2707
20°	1156524	2520	1103
25°	1879527	871	0
30°	2062830	285	0
35°	1874607	0	0
40°	1608936	0	0
45°	1192611	0	0
50°	806449	0	0
55°	272410	430	0
60°	38976	1085	0
65°	3152	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°	38.0	5.2
20°-30°	215.4	29.2
30°-40°	280.7	38.1
40°-50°	164.4	22.3
50°-60°	33.2	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°	255.6	34.7
0°-40°	536.3	72.8
0°-60°	733.9	99.6
0°-90°	736.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	36	26	15	12	11	6
15°	632	72	9	6	5	268
25°	3453	121	2	1	0	1527
35°	3112	89	0	0	0	1938
45°	1709	22	0	0	0	1335
55°	317	2	0	0	0	369
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°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
2.5°	22.4	20.8	19.8	17.1	15.5	14.4	13.9	13.4	12.8
5°	35.8	33.1	25.6	18.7	15.0	12.8	11.8	10.7	10.7
7.5°	61.4	49.7	33.7	19.8	13.9	11.2	10.1	8.5	8.0
10°	106.3	82.8	45.9	20.8	12.8	10.1	8.0	7.5	6.9
12.5°	249.4	151.2	58.2	20.8	11.2	8.5	6.9	6.4	5.9
15°	632.4	308.2	72.1	19.8	9.1	6.4	5.9	5.3	5.3
17.5°	1311.9	633.0	87.6	18.2	7.5	4.8	4.3	3.7	3.7
20°	2202.8	1134.5	102.6	15.5	4.8	3.2	2.7	2.1	2.1
21°	2530.8	1316.7	110.0	14.4	4.3	2.7	2.1	2.1	1.6
22°	2825.6	1483.9	114.3	13.9	3.2	2.1	2.1	1.6	1.6
23°	3015.8	1695.9	118.0	12.3	2.7	1.6	1.6	1.1	0.5
24°	3302.6	1862.0	119.6	11.2	2.1	1.6	1.1	0.5	0.5
25°	3452.7	2012.7	121.3	10.1	1.6	1.6	1.1	0.5	0.0
26°	3560.6	2131.8	127.1	9.6	1.6	1.1	1.1	0.5	0.0
27°	3645.0	2207.6	130.3	8.5	1.1	1.1	1.1	0.0	0.0
28°	3640.2	2262.6	127.7	7.5	1.1	1.1	0.5	0.0	0.0
29°	3663.2	2300.0	126.1	6.4	0.5	0.5	0.5	0.0	0.0
30°	3621.0	2303.2	120.2	5.9	0.5	0.5	0.5	0.0	0.0
31°	3556.9	2264.2	118.0	5.3	0.0	0.5	0.5	0.0	0.0
32°	3496.5	2246.6	111.1	4.3	0.0	0.5	0.5	0.0	0.0
33°	3392.9	2167.6	104.2	3.7	0.0	0.5	0.0	0.0	0.0
34°	3254.0	2090.1	97.7	3.2	0.0	0.5	0.0	0.0	0.0
35°	3112.5	2026.0	88.7	3.2	0.0	0.5	0.0	0.0	0.0
36°	2995.0	1909.6	82.3	2.7	0.0	0.5	0.0	0.0	0.0
37°	2852.3	1809.7	73.7	2.1	0.0	0.0	0.0	0.0	0.0
38°	2755.1	1669.2	67.3	2.1	0.0	0.0	0.0	0.0	0.0
39°	2624.3	1550.6	59.3	1.6	0.0	0.0	0.0	0.0	0.0
40°	2498.2	1427.8	51.3	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	2136.6	1101.4	35.3	0.5	0.0	0.0	0.0	0.0	0.0
45°	1709.3	807.6	21.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1357.3	545.4	13.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	1050.7	281.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	698.7	119.1	4.8	0.0	0.0	0.5	0.0	0.0	0.0
55°	316.7	62.0	2.1	0.0	0.5	0.5	0.5	0.0	0.0
57.5°	127.7	26.7	1.1	0.5	0.5	0.5	0.5	0.0	0.0
60°	39.5	7.5	0.5	0.5	1.1	1.1	0.5	0.0	0.0
62.5°	8.0	1.6	0.5	1.1	1.1	1.1	0.5	0.0	0.0
65°	2.7	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)