

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: P493771

Luminaire Tested: **LDA2B059050R30D010 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: P493771  
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: LDA2B059050R30D010 2LBD1MB-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

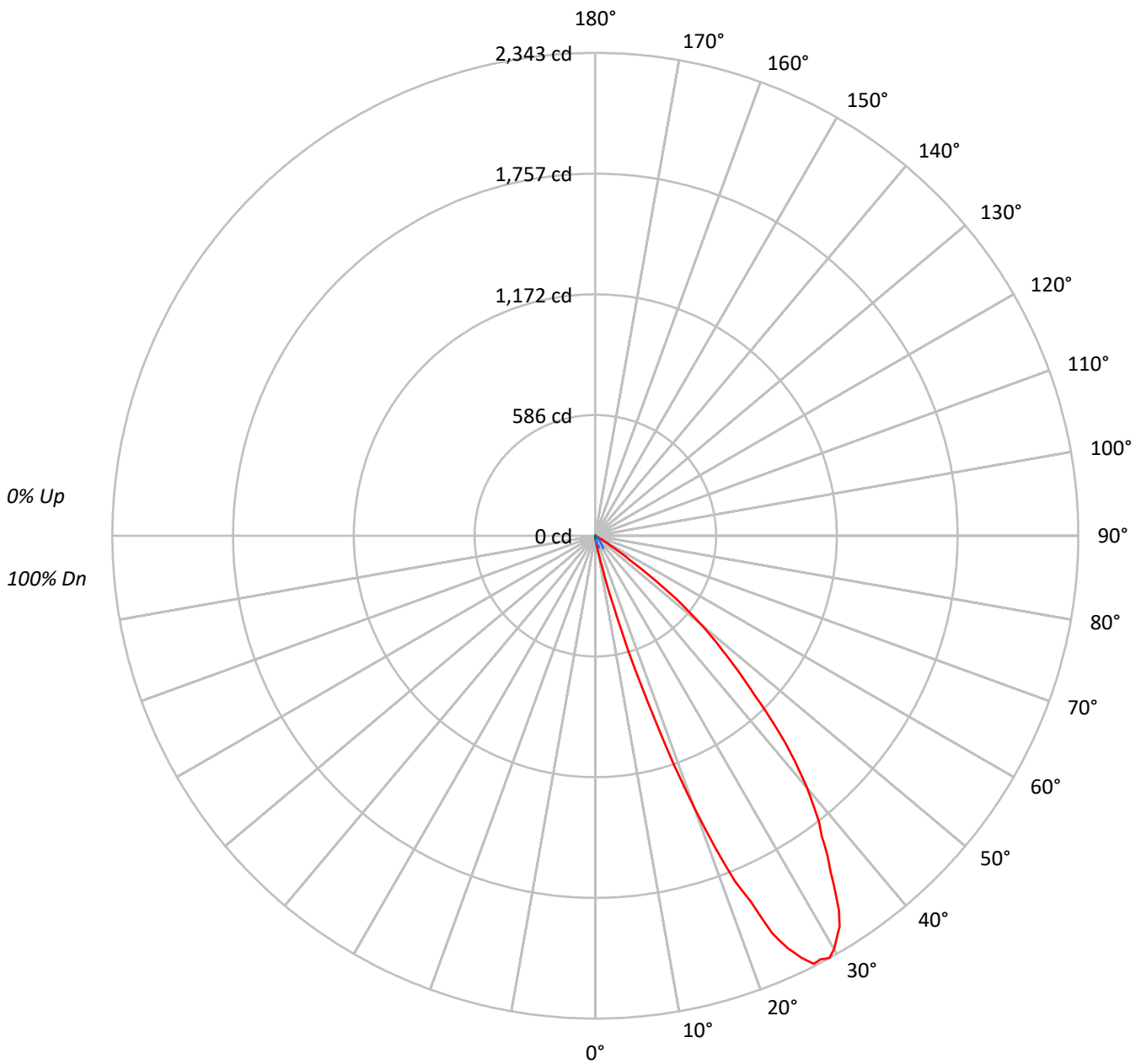
Lumens per Lamp: N/A  
Luminaire Lumens: 471.2 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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	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	58					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°	5230	5230	5230
5°	11341	4754	3368
10°	34066	4108	2204
15°	206605	2962	1737
20°	739707	1628	735
25°	1202175	544	0
30°	1319391	171	0
35°	1199026	0	0
40°	1029108	0	0
45°	762816	0	0
50°	515783	0	0
55°	174266	258	0
60°	24964	691	0
65°	1985	817	0
70°	0	1010	0
75°	0	1906	0
80°	0	1989	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.4	0.3
10°-20°	24.3	5.2
20°-30°	137.8	29.2
30°-40°	179.5	38.1
40°-50°	105.2	22.3
50°-60°	21.2	4.5
60°-70°	0.8	0.2
70°-80°	0.6	0.1
80°-90°	0.5	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°	163.5	34.7
0°-40°	343.0	72.8
0°-60°	469.4	99.6
0°-90°	471.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	471.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	23	16	10	8	7	4
15°	404	46	6	4	3	171
25°	2208	78	1	1	0	977
35°	1991	57	0	0	0	1240
45°	1093	14	0	0	0	854
55°	203	1	0	0	0	236
65°	2	0	1	1	0	5
75°	0	1	1	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°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
2.5°	14.3	13.3	12.6	10.9	9.9	9.2	8.9	8.5	8.2
5°	22.9	21.2	16.4	12.0	9.6	8.2	7.5	6.8	6.8
7.5°	39.3	31.8	21.5	12.6	8.9	7.2	6.5	5.5	5.1
10°	68.0	53.0	29.4	13.3	8.2	6.5	5.1	4.8	4.4
12.5°	159.5	96.7	37.2	13.3	7.2	5.5	4.4	4.1	3.8
15°	404.5	197.1	46.1	12.6	5.8	4.1	3.8	3.4	3.4
17.5°	839.1	404.9	56.0	11.6	4.8	3.1	2.7	2.4	2.4
20°	1408.9	725.7	65.6	9.9	3.1	2.0	1.7	1.4	1.4
21°	1618.7	842.2	70.4	9.2	2.7	1.7	1.4	1.4	1.0
22°	1807.3	949.1	73.1	8.9	2.0	1.4	1.4	1.0	1.0
23°	1928.9	1084.7	75.5	7.9	1.7	1.0	1.0	0.7	0.3
24°	2112.4	1191.0	76.5	7.2	1.4	1.0	0.7	0.3	0.3
25°	2208.4	1287.3	77.6	6.5	1.0	1.0	0.7	0.3	0.0
26°	2277.4	1363.5	81.3	6.1	1.0	0.7	0.7	0.3	0.0
27°	2331.4	1412.0	83.4	5.5	0.7	0.7	0.7	0.0	0.0
28°	2328.3	1447.2	81.7	4.8	0.7	0.7	0.3	0.0	0.0
29°	2343.0	1471.1	80.6	4.1	0.3	0.3	0.3	0.0	0.0
30°	2316.0	1473.2	76.9	3.8	0.3	0.3	0.3	0.0	0.0
31°	2275.0	1448.2	75.5	3.4	0.0	0.3	0.3	0.0	0.0
32°	2236.4	1437.0	71.1	2.7	0.0	0.3	0.3	0.0	0.0
33°	2170.1	1386.4	66.6	2.4	0.0	0.3	0.0	0.0	0.0
34°	2081.3	1336.9	62.5	2.0	0.0	0.3	0.0	0.0	0.0
35°	1990.8	1295.9	56.7	2.0	0.0	0.3	0.0	0.0	0.0
36°	1915.6	1221.4	52.6	1.7	0.0	0.3	0.0	0.0	0.0
37°	1824.4	1157.5	47.1	1.4	0.0	0.0	0.0	0.0	0.0
38°	1762.2	1067.6	43.0	1.4	0.0	0.0	0.0	0.0	0.0
39°	1678.5	991.8	37.9	1.0	0.0	0.0	0.0	0.0	0.0
40°	1597.9	913.2	32.8	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1366.6	704.5	22.5	0.3	0.0	0.0	0.0	0.0	0.0
45°	1093.3	516.6	14.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	868.1	348.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	672.0	179.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	446.9	76.2	3.1	0.0	0.0	0.3	0.0	0.0	0.0
55°	202.6	39.6	1.4	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	81.7	17.1	0.7	0.3	0.3	0.3	0.3	0.0	0.0
60°	25.3	4.8	0.3	0.3	0.7	0.7	0.3	0.0	0.0
62.5°	5.1	1.0	0.3	0.7	0.7	0.7	0.3	0.0	0.0
65°	1.7	0.3	0.3	0.7	0.7	0.7	0.7	0.0	0.0
67.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.0
70°	0.0	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.0
72.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
75°	0.0	0.3	0.7	0.7	1.0	1.0	0.7	0.3	0.0
77.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
80°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	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	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
85°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.0	0.0
87.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.3	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)