

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: P497053

Luminaire Tested: **LDA2B109730R35D010 2LBD1MMS-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: P497053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B109730R35D010 2LBD1MMS-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

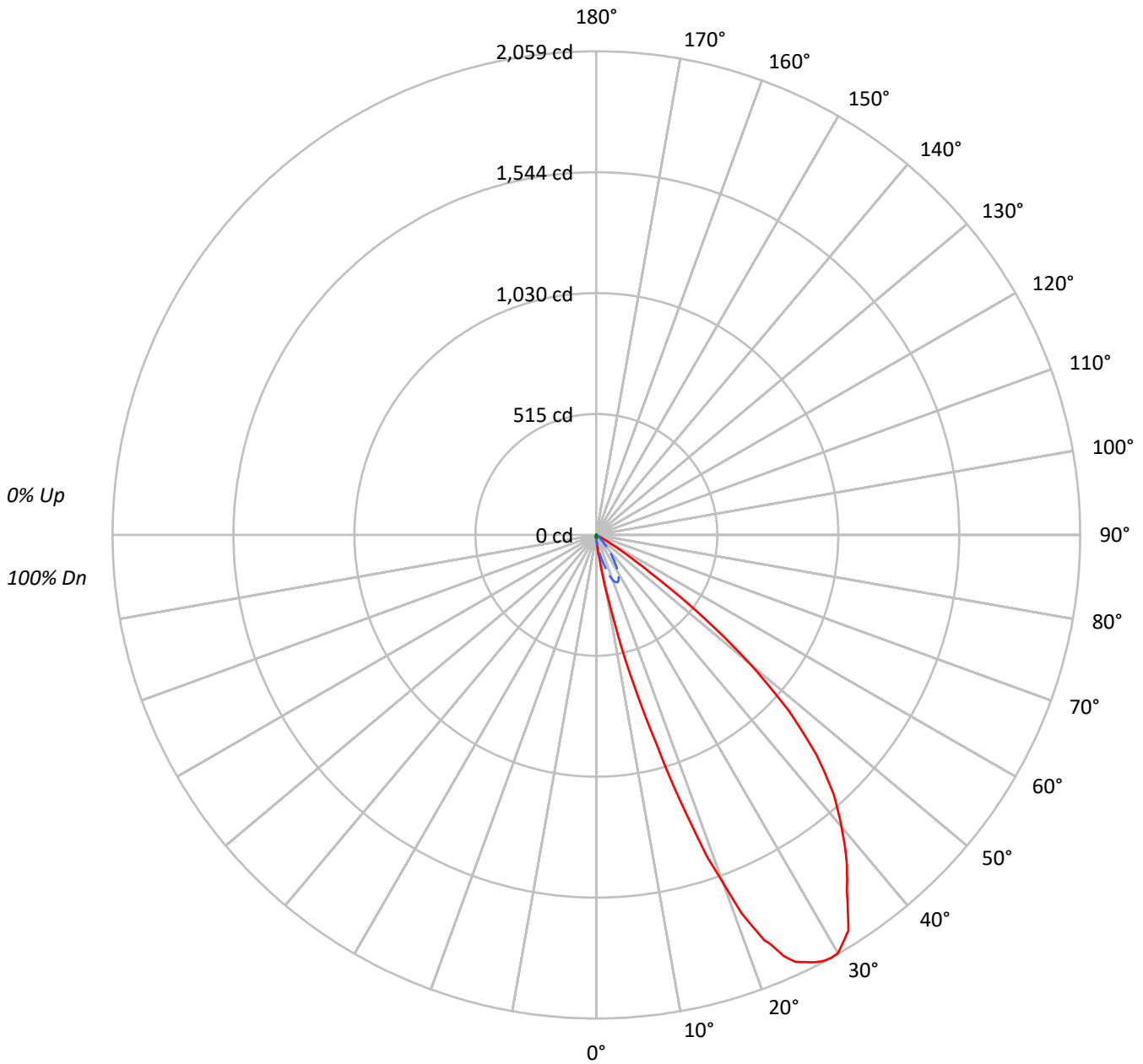
Lumens per Lamp: N/A  
Luminaire Lumens: 555.8 lumens  
Efficiency: N/A  
Efficacy: 55.6 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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	58					56				
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46					44				
8	67	54	47	42	65	54	46	41	53	46	41	51	45	41	50	45	41					39				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36					35				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33					31				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	9275	9275	9275
5°	29071	8122	5052
10°	124041	6863	3707
15°	400747	5006	3014
20°	825916	3098	2048
25°	1092050	1470	1252
30°	1171330	684	684
35°	1119404	482	241
40°	1045145	258	0
45°	923780	0	0
50°	655935	307	0
55°	235165	344	0
60°	36311	789	0
65°	1868	934	0
70°	0	1154	0
75°	0	1525	762
80°	0	2273	0
85°	0	4529	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.3	0.6
10°-20°	45.0	8.1
20°-30°	150.6	27.1
30°-40°	189.6	34.1
40°-50°	134.1	24.1
50°-60°	30.9	5.6
60°-70°	1.0	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°	198.8	35.8
0°-40°	388.5	69.9
0°-60°	553.6	99.6
0°-90°	555.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	555.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	59	38	16	12	10	11
15°	785	138	10	7	6	259
25°	2006	219	3	3	2	904
35°	1859	128	1	1	0	1164
45°	1324	32	0	0	0	993
55°	273	2	0	0	0	309
65°	2	0	1	1	0	6
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°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
1°	23.5	22.7	21.5	19.6	17.6	16.8	16.8	15.6	15.6
2°	28.2	27.0	24.6	20.7	17.6	15.6	14.9	14.1	13.7
3°	36.4	33.2	28.2	22.3	17.2	14.9	14.5	12.5	12.5
4°	45.4	42.2	32.5	23.5	16.8	14.1	12.5	11.7	11.3
5°	58.7	51.6	38.3	24.6	16.4	13.3	11.7	10.6	10.2
6°	75.9	66.1	43.8	25.8	16.0	12.5	11.0	9.8	9.4
7°	95.4	82.1	50.5	27.0	15.3	11.7	10.2	9.4	9.0
8°	136.9	105.6	58.3	27.8	14.9	11.0	9.8	8.6	8.2
9°	183.0	136.5	66.9	28.9	14.1	10.6	9.0	8.2	7.8
10°	247.6	178.7	76.7	29.7	13.7	9.8	8.2	7.8	7.4
11°	311.7	231.2	88.8	30.1	12.9	8.6	8.2	7.8	7.4
12°	417.3	281.2	99.3	30.1	12.1	8.2	7.4	7.0	6.6
13°	542.5	367.3	114.6	30.5	11.0	7.8	7.0	6.6	6.6
14°	652.8	444.3	124.8	30.5	10.6	7.0	6.6	6.6	6.3
15°	784.6	519.4	138.5	30.1	9.8	6.6	6.6	6.3	5.9
16°	922.7	632.1	156.8	29.3	9.0	5.9	6.3	5.5	5.1
17°	1105.7	725.1	170.9	28.6	8.2	5.5	5.5	5.5	5.1
18°	1273.1	838.2	182.3	27.8	7.4	5.5	5.1	5.1	4.7
19°	1452.6	928.9	193.6	26.6	6.6	4.7	4.7	4.7	4.3
20°	1573.1	1040.4	206.1	25.4	5.9	4.3	4.7	4.3	3.9
21°	1725.6	1140.1	210.8	24.2	5.1	3.9	3.9	3.9	3.5
22.5°	1868.4	1272.7	218.2	21.9	4.3	3.1	3.5	3.1	3.1
23°	1890.3	1300.9	218.2	21.1	3.9	3.1	3.5	3.1	3.1
24°	1963.1	1377.9	221.0	19.6	3.1	2.7	3.1	2.7	2.7
25°	2006.1	1439.0	219.0	18.0	2.7	2.7	2.7	2.7	2.3
26°	2023.7	1455.8	214.3	16.8	2.3	2.3	2.7	2.3	2.0
27°	2042.1	1494.1	208.5	15.3	2.0	2.3	2.3	2.3	2.0
28°	2055.0	1498.8	202.6	14.1	1.6	2.0	2.3	2.0	2.0
29°	2059.3	1505.1	195.6	12.5	1.2	1.6	2.0	1.6	1.6
30°	2056.1	1503.9	185.4	11.3	1.2	1.6	1.6	1.6	1.2
32.5°	1996.3	1470.2	157.2	8.2	0.8	1.2	1.2	1.2	0.8
35°	1858.6	1392.8	128.3	5.5	0.8	0.8	0.8	0.8	0.4
37.5°	1749.9	1277.0	98.2	3.1	0.4	0.8	0.8	0.4	0.0
40°	1622.8	1109.2	70.8	2.0	0.4	0.4	0.4	0.0	0.0
42.5°	1493.7	938.3	48.1	0.8	0.0	0.4	0.4	0.0	0.0
45°	1324.0	718.5	31.7	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1113.5	521.8	21.5	0.0	0.0	0.4	0.0	0.0	0.0
50°	854.6	292.2	12.1	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	563.2	145.9	4.7	0.0	0.4	0.4	0.4	0.0	0.0
55°	273.4	78.2	1.6	0.4	0.4	0.8	0.4	0.0	0.0
57.5°	129.1	30.5	0.4	0.4	0.8	0.8	0.4	0.0	0.0
60°	36.8	6.3	0.4	0.4	0.8	0.8	0.4	0.4	0.0
62.5°	5.1	0.8	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.6	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4
77.5°	0.0	0.4	0.8	0.8	1.2	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
82.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.4	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)