

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: P491880

Luminaire Tested: **LDA2B058030R35D010 2LBDC1MMS-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: P491880  
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: LDA2B058030R35D010 2LBDC1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

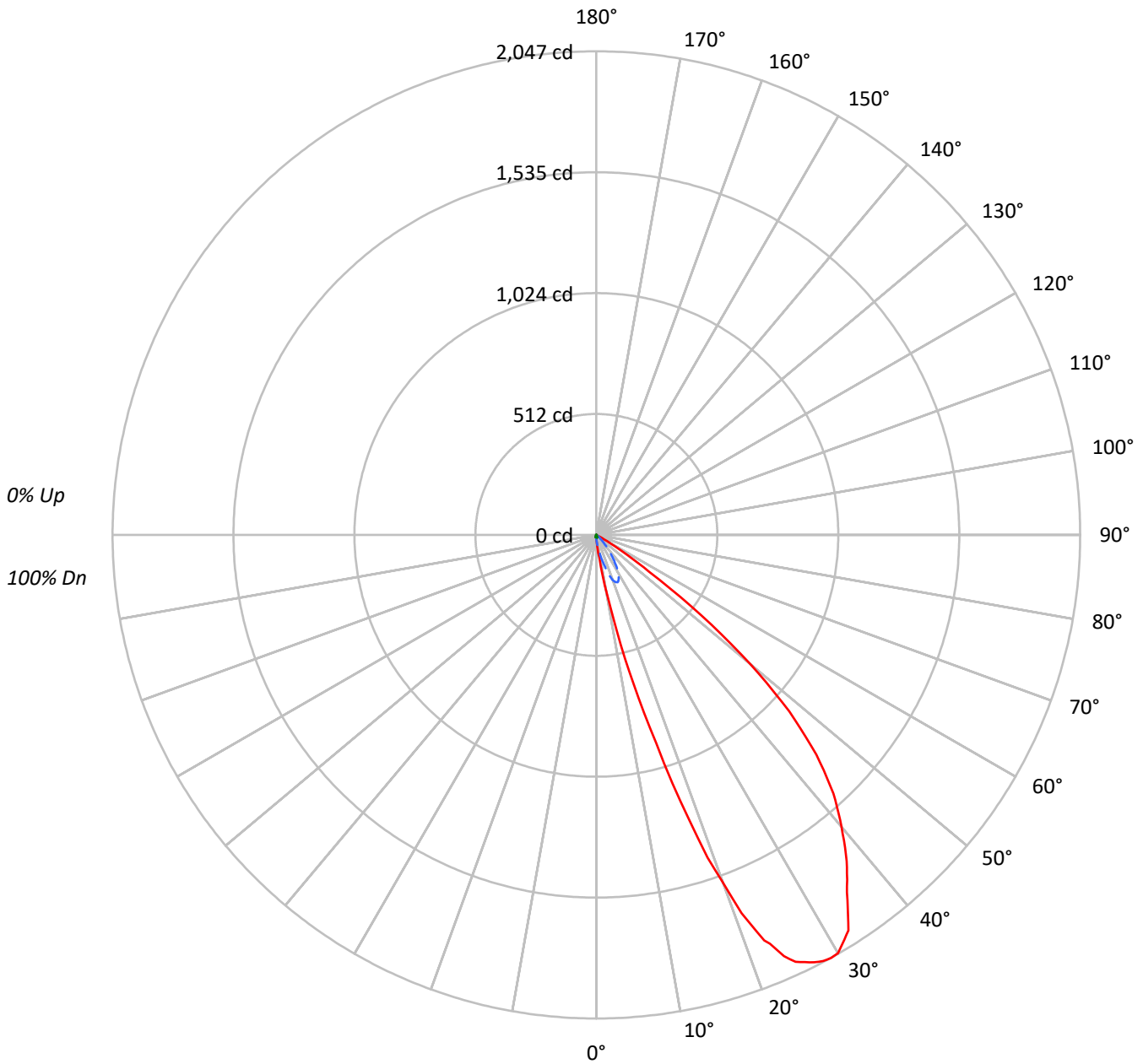
Lumens per Lamp: N/A  
Luminaire Lumens: 552.6 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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	75	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°	9226	9226	9226
5°	28873	8073	5002
10°	123289	6813	3707
15°	398397	4954	2962
20°	821139	3045	2048
25°	1085681	1470	1252
30°	1164550	684	684
35°	1112900	482	241
40°	1039091	258	0
45°	918407	0	0
50°	652097	307	0
55°	233789	344	0
60°	36114	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°	44.7	8.1
20°-30°	149.7	27.1
30°-40°	188.5	34.1
40°-50°	133.4	24.1
50°-60°	30.8	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°	197.7	35.8
0°-40°	386.2	69.9
0°-60°	550.3	99.6
0°-90°	552.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	58	38	16	12	10	11
15°	780	138	10	7	6	257
25°	1994	218	3	3	2	899
35°	1848	128	1	1	0	1157
45°	1316	32	0	0	0	987
55°	272	2	0	0	0	308
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°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
1°	23.3	22.6	21.4	19.4	17.5	16.7	16.7	15.6	15.6
2°	28.0	26.8	24.5	20.6	17.5	15.6	14.8	14.0	13.6
3°	36.2	33.1	28.0	22.2	17.1	14.8	14.4	12.4	12.4
4°	45.1	42.0	32.3	23.3	16.7	14.0	12.4	11.7	11.3
5°	58.3	51.3	38.1	24.5	16.3	13.2	11.7	10.5	10.1
6°	75.4	65.7	43.6	25.7	15.9	12.4	10.9	9.7	9.3
7°	94.9	81.7	50.2	26.8	15.2	11.7	10.1	9.3	8.9
8°	136.1	105.0	57.9	27.6	14.8	10.9	9.7	8.6	8.2
9°	182.0	135.7	66.5	28.8	14.0	10.5	8.9	8.2	7.8
10°	246.1	177.7	76.2	29.6	13.6	9.7	8.2	7.8	7.4
11°	309.9	229.8	88.3	29.9	12.8	8.6	8.2	7.8	7.4
12°	414.9	279.6	98.8	29.9	12.1	8.2	7.4	7.0	6.6
13°	539.3	365.1	113.9	30.3	10.9	7.8	7.0	6.6	6.6
14°	649.0	441.7	124.0	30.3	10.5	7.0	6.6	6.6	6.2
15°	780.0	516.4	137.7	29.9	9.7	6.6	6.6	6.2	5.8
16°	917.3	628.4	155.9	29.2	8.9	5.8	6.2	5.4	5.1
17°	1099.3	720.9	169.9	28.4	8.2	5.4	5.4	5.4	5.1
18°	1265.7	833.3	181.2	27.6	7.4	5.4	5.1	5.1	4.7
19°	1444.2	923.5	192.5	26.4	6.6	4.7	4.7	4.7	4.3
20°	1564.0	1034.4	204.9	25.3	5.8	4.3	4.7	4.3	3.9
21°	1715.6	1133.5	209.6	24.1	5.1	3.9	3.9	3.9	3.5
22.5°	1857.6	1265.3	217.0	21.8	4.3	3.1	3.5	3.1	3.1
23°	1879.3	1293.3	217.0	21.0	3.9	3.1	3.5	3.1	3.1
24°	1951.7	1369.9	219.7	19.4	3.1	2.7	3.1	2.7	2.7
25°	1994.4	1430.6	217.8	17.9	2.7	2.7	2.7	2.7	2.3
26°	2011.9	1447.3	213.1	16.7	2.3	2.3	2.7	2.3	1.9
27°	2030.2	1485.4	207.3	15.2	1.9	2.3	2.3	2.3	1.9
28°	2043.0	1490.1	201.4	14.0	1.6	1.9	2.3	1.9	1.9
29°	2047.3	1496.3	194.4	12.4	1.2	1.6	1.9	1.6	1.6
30°	2044.2	1495.1	184.3	11.3	1.2	1.6	1.6	1.6	1.2
32.5°	1984.7	1461.7	156.3	8.2	0.8	1.2	1.2	1.2	0.8
35°	1847.8	1384.7	127.5	5.4	0.8	0.8	0.8	0.8	0.4
37.5°	1739.7	1269.6	97.6	3.1	0.4	0.8	0.8	0.4	0.0
40°	1613.4	1102.8	70.4	1.9	0.4	0.4	0.4	0.0	0.0
42.5°	1485.0	932.9	47.8	0.8	0.0	0.4	0.4	0.0	0.0
45°	1316.3	714.3	31.5	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1107.1	518.7	21.4	0.0	0.0	0.4	0.0	0.0	0.0
50°	849.6	290.5	12.1	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	560.0	145.0	4.7	0.0	0.4	0.4	0.4	0.0	0.0
55°	271.8	77.8	1.6	0.4	0.4	0.8	0.4	0.0	0.0
57.5°	128.3	30.3	0.4	0.4	0.8	0.8	0.4	0.0	0.0
60°	36.6	6.2	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)