

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: P497917

Luminaire Tested: **LDA2B158040R35D010 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: P497917  
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: LDA2B158040R35D010 2LBD1MMS-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

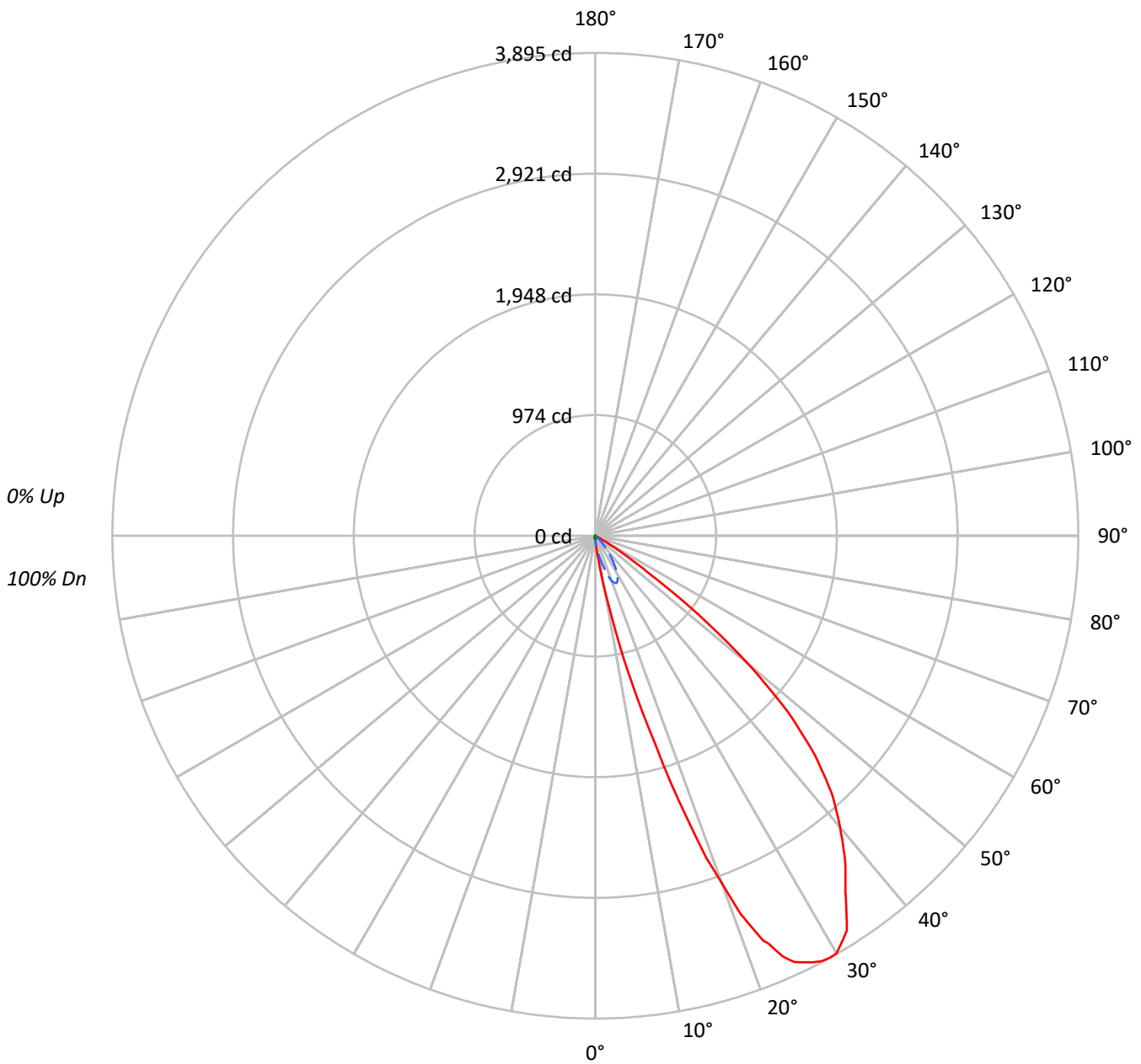
Lumens per Lamp: N/A  
Luminaire Lumens: 1051.1 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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	84	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°	17514	17514	17514
5°	54972	15402	9509
10°	234606	12975	7064
15°	757976	9449	5669
20°	1562211	5828	3885
25°	2065537	2831	2395
30°	2215562	1253	1253
35°	2117328	903	422
40°	1976810	451	0
45°	1747228	0	0
50°	1240720	537	0
55°	444784	602	0
60°	68577	1480	0
65°	3502	1751	0
70°	0	2164	0
75°	0	2859	1334
80°	0	4262	0
85°	0	8491	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.2	0.6
10°-20°	85.1	8.1
20°-30°	284.8	27.1
30°-40°	358.7	34.1
40°-50°	253.7	24.1
50°-60°	58.5	5.6
60°-70°	1.9	0.2
70°-80°	1.2	0.1
80°-90°	1.0	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°	376.1	35.8
0°-40°	734.8	69.9
0°-60°	1047.0	99.6
0°-90°	1051.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1051.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	111	72	31	22	19	21
15°	1484	262	18	13	11	489
25°	3794	414	5	5	4	1710
35°	3516	243	2	2	1	2201
45°	2504	60	0	0	0	1878
55°	517	3	1	1	0	585
65°	3	1	2	2	0	12
75°	0	2	2	2	1	0
85°	0	2	2	2	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°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
1°	44.4	42.9	40.7	37.0	33.3	31.8	31.8	29.6	29.6
2°	53.3	51.0	46.6	39.2	33.3	29.6	28.1	26.6	25.9
3°	68.8	62.9	53.3	42.2	32.6	28.1	27.4	23.7	23.7
4°	85.8	79.9	61.4	44.4	31.8	26.6	23.7	22.2	21.5
5°	111.0	97.7	72.5	46.6	31.1	25.2	22.2	20.0	19.2
6°	143.5	125.0	82.9	48.8	30.3	23.7	20.7	18.5	17.8
7°	180.5	155.4	95.4	51.0	28.9	22.2	19.2	17.8	17.0
8°	258.9	199.7	110.2	52.5	28.1	20.7	18.5	16.3	15.5
9°	346.2	258.2	126.5	54.7	26.6	20.0	17.0	15.5	14.8
10°	468.3	338.1	145.0	56.2	25.9	18.5	15.5	14.8	14.1
11°	589.6	437.2	167.9	57.0	24.4	16.3	15.5	14.8	14.1
12°	789.4	531.9	187.9	57.0	22.9	15.5	14.1	13.3	12.6
13°	1026.1	694.7	216.8	57.7	20.7	14.8	13.3	12.6	12.6
14°	1234.7	840.4	236.0	57.7	20.0	13.3	12.6	12.6	11.8
15°	1484.0	982.5	261.9	57.0	18.5	12.6	12.6	11.8	11.1
16°	1745.2	1195.5	296.7	55.5	17.0	11.1	11.8	10.4	9.6
17°	2091.4	1371.6	323.3	54.0	15.5	10.4	10.4	10.4	9.6
18°	2408.0	1585.4	344.7	52.5	14.1	10.4	9.6	9.6	8.9
19°	2747.6	1757.0	366.2	50.3	12.6	8.9	8.9	8.9	8.1
20°	2975.5	1967.9	389.9	48.1	11.1	8.1	8.9	8.1	7.4
21°	3264.0	2156.5	398.8	45.9	9.6	7.4	7.4	7.4	6.7
22.5°	3534.0	2407.3	412.8	41.4	8.1	5.9	6.7	5.9	5.9
23°	3575.4	2460.6	412.8	39.9	7.4	5.9	6.7	5.9	5.9
24°	3713.1	2606.3	418.0	37.0	5.9	5.2	5.9	5.2	5.2
25°	3794.4	2721.7	414.3	34.0	5.2	5.2	5.2	5.2	4.4
26°	3827.7	2753.5	405.4	31.8	4.4	4.4	5.2	4.4	3.7
27°	3862.5	2826.0	394.3	28.9	3.7	4.4	4.4	4.4	3.7
28°	3886.9	2834.9	383.2	26.6	3.0	3.7	4.4	3.7	3.7
29°	3895.0	2846.7	369.9	23.7	2.2	3.0	3.7	3.0	3.0
30°	3889.1	2844.5	350.7	21.5	2.2	3.0	3.0	3.0	2.2
32.5°	3775.9	2780.9	297.4	15.5	1.5	2.2	2.2	2.2	1.5
35°	3515.5	2634.4	242.7	10.4	1.5	1.5	1.5	1.5	0.7
37.5°	3309.9	2415.4	185.7	5.9	0.7	1.5	1.5	0.7	0.0
40°	3069.4	2098.1	133.9	3.7	0.7	0.7	0.7	0.0	0.0
42.5°	2825.3	1774.8	91.0	1.5	0.0	0.7	0.7	0.0	0.0
45°	2504.2	1359.0	59.9	0.7	0.0	0.7	0.0	0.0	0.0
47.5°	2106.2	986.9	40.7	0.0	0.0	0.7	0.0	0.0	0.0
50°	1616.5	552.6	22.9	0.0	0.7	0.7	0.7	0.0	0.0
52.5°	1065.3	275.9	8.9	0.0	0.7	0.7	0.7	0.0	0.0
55°	517.1	148.0	3.0	0.7	0.7	1.5	0.7	0.0	0.0
57.5°	244.1	57.7	0.7	0.7	1.5	1.5	0.7	0.0	0.0
60°	69.5	11.8	0.7	0.7	1.5	1.5	0.7	0.7	0.0
62.5°	9.6	1.5	0.7	1.5	1.5	1.5	1.5	0.7	0.0
65°	3.0	0.7	0.7	1.5	1.5	1.5	1.5	0.7	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	0.7	0.0
70°	0.0	0.7	0.7	1.5	1.5	1.5	1.5	0.7	0.0
72.5°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
75°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.7
77.5°	0.0	0.7	1.5	1.5	2.2	1.5	1.5	0.7	0.0
80°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
82.5°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
85°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
87.5°	0.0	0.7	1.5	1.5	1.5	1.5	0.7	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)