

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: P497485

Luminaire Tested: **LDA2B158030R35D010 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: P497485  
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: LDA2B158030R35D010 2LBD1MMS-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

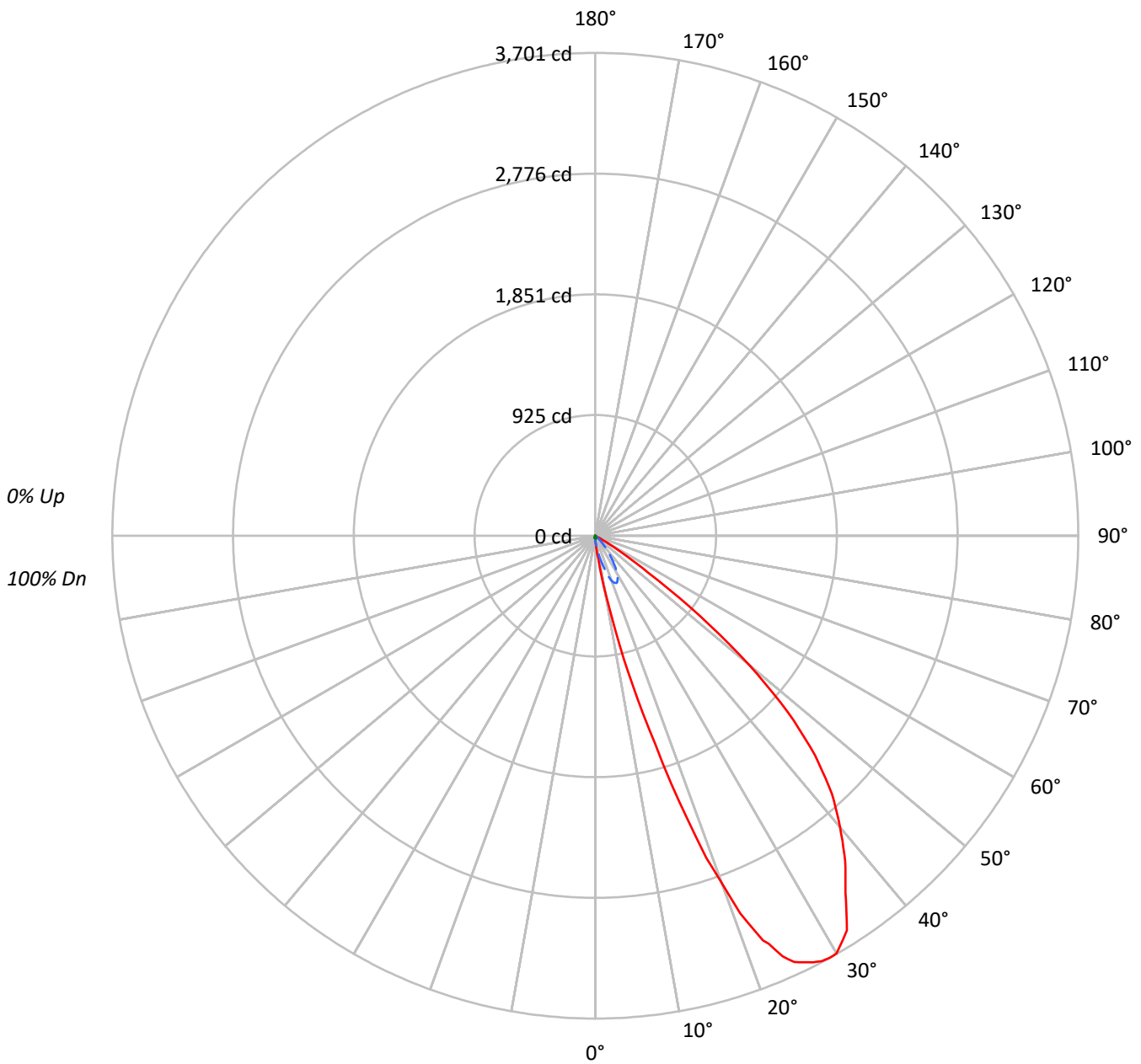
Lumens per Lamp: N/A  
Luminaire Lumens: 998.7 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44					44			
8	67	54	47	42	65	54	46	41	53	46	41	51	45	41	50	45	41	39					39			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

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

	0°	90°	180°
0°	16626	16626	16626
5°	52199	14610	9063
10°	222933	12324	6713
15°	720231	8989	5363
20°	1484350	5513	3675
25°	1962597	2667	2286
30°	2105157	1196	1196
35°	2011808	843	422
40°	1878337	451	0
45°	1660152	0	0
50°	1178857	537	0
55°	422592	602	0
60°	65222	1381	0
65°	3269	1634	0
70°	0	2019	0
75°	0	2669	1334
80°	0	3978	0
85°	0	7925	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.6
10°-20°	80.8	8.1
20°-30°	270.6	27.1
30°-40°	340.8	34.1
40°-50°	241.1	24.1
50°-60°	55.6	5.6
60°-70°	1.8	0.2
70°-80°	1.1	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°	357.3	35.8
0°-40°	698.1	69.9
0°-60°	994.8	99.6
0°-90°	998.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	998.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	105	69	30	21	18	20
15°	1410	249	18	12	10	465
25°	3605	394	5	5	4	1625
35°	3340	231	1	1	1	2091
45°	2379	57	0	0	0	1784
55°	491	3	1	1	0	556
65°	3	1	1	1	0	11
75°	0	1	1	1	1	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°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
1°	42.2	40.8	38.7	35.1	31.6	30.2	30.2	28.1	28.1
2°	50.6	48.5	44.3	37.3	31.6	28.1	26.7	25.3	24.6
3°	65.4	59.7	50.6	40.1	30.9	26.7	26.0	22.5	22.5
4°	81.5	75.9	58.3	42.2	30.2	25.3	22.5	21.1	20.4
5°	105.4	92.8	68.9	44.3	29.5	23.9	21.1	19.0	18.3
6°	136.4	118.8	78.7	46.4	28.8	22.5	19.7	17.6	16.9
7°	171.5	147.6	90.7	48.5	27.4	21.1	18.3	16.9	16.2
8°	246.0	189.8	104.7	49.9	26.7	19.7	17.6	15.5	14.8
9°	329.0	245.3	120.2	52.0	25.3	19.0	16.2	14.8	14.1
10°	445.0	321.2	137.8	53.4	24.6	17.6	14.8	14.1	13.4
11°	560.2	415.4	159.6	54.1	23.2	15.5	14.8	14.1	13.4
12°	750.0	505.4	178.5	54.1	21.8	14.8	13.4	12.7	11.9
13°	975.0	660.1	206.0	54.8	19.7	14.1	12.7	11.9	11.9
14°	1173.2	798.5	224.2	54.8	19.0	12.7	11.9	11.9	11.2
15°	1410.1	933.5	248.8	54.1	17.6	11.9	11.9	11.2	10.5
16°	1658.2	1135.9	281.9	52.7	16.2	10.5	11.2	9.8	9.1
17°	1987.2	1303.2	307.2	51.3	14.8	9.8	9.8	9.8	9.1
18°	2288.0	1506.4	327.6	49.9	13.4	9.8	9.1	9.1	8.4
19°	2610.7	1669.5	348.0	47.8	11.9	8.4	8.4	8.4	7.7
20°	2827.2	1869.8	370.4	45.7	10.5	7.7	8.4	7.7	7.0
21°	3101.3	2049.0	378.9	43.6	9.1	7.0	7.0	7.0	6.3
22.5°	3357.9	2287.3	392.2	39.4	7.7	5.6	6.3	5.6	5.6
23°	3397.3	2337.9	392.2	38.0	7.0	5.6	6.3	5.6	5.6
24°	3528.0	2476.4	397.2	35.1	5.6	4.9	5.6	4.9	4.9
25°	3605.3	2586.1	393.6	32.3	4.9	4.9	4.9	4.9	4.2
26°	3637.0	2616.3	385.2	30.2	4.2	4.2	4.9	4.2	3.5
27°	3670.0	2685.2	374.7	27.4	3.5	4.2	4.2	4.2	3.5
28°	3693.2	2693.6	364.1	25.3	2.8	3.5	4.2	3.5	3.5
29°	3700.9	2704.9	351.5	22.5	2.1	2.8	3.5	2.8	2.8
30°	3695.3	2702.8	333.2	20.4	2.1	2.8	2.8	2.8	2.1
32.5°	3587.8	2642.3	282.6	14.8	1.4	2.1	2.1	2.1	1.4
35°	3340.3	2503.1	230.6	9.8	1.4	1.4	1.4	1.4	0.7
37.5°	3144.9	2295.1	176.4	5.6	0.7	1.4	1.4	0.7	0.0
40°	2916.5	1993.5	127.2	3.5	0.7	0.7	0.7	0.0	0.0
42.5°	2684.5	1686.3	86.5	1.4	0.0	0.7	0.7	0.0	0.0
45°	2379.4	1291.3	56.9	0.7	0.0	0.7	0.0	0.0	0.0
47.5°	2001.2	937.7	38.7	0.0	0.0	0.7	0.0	0.0	0.0
50°	1535.9	525.1	21.8	0.0	0.7	0.7	0.7	0.0	0.0
52.5°	1012.2	262.2	8.4	0.0	0.7	0.7	0.7	0.0	0.0
55°	491.3	140.6	2.8	0.7	0.7	1.4	0.7	0.0	0.0
57.5°	232.0	54.8	0.7	0.7	1.4	1.4	0.7	0.0	0.0
60°	66.1	11.2	0.7	0.7	1.4	1.4	0.7	0.7	0.0
62.5°	9.1	1.4	0.7	1.4	1.4	1.4	1.4	0.7	0.0
65°	2.8	0.7	0.7	1.4	1.4	1.4	1.4	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	1.4	1.4	1.4	1.4	0.7	0.0
70°	0.0	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0
72.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
75°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.7
77.5°	0.0	0.7	1.4	1.4	2.1	1.4	1.4	0.7	0.0
80°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
82.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
85°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
87.5°	0.0	0.7	1.4	1.4	1.4	1.4	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)