

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: P492733

Luminaire Tested: **LDA2B059024R35D010 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: P492733  
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: LDA2B059024R35D010 2LBD1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

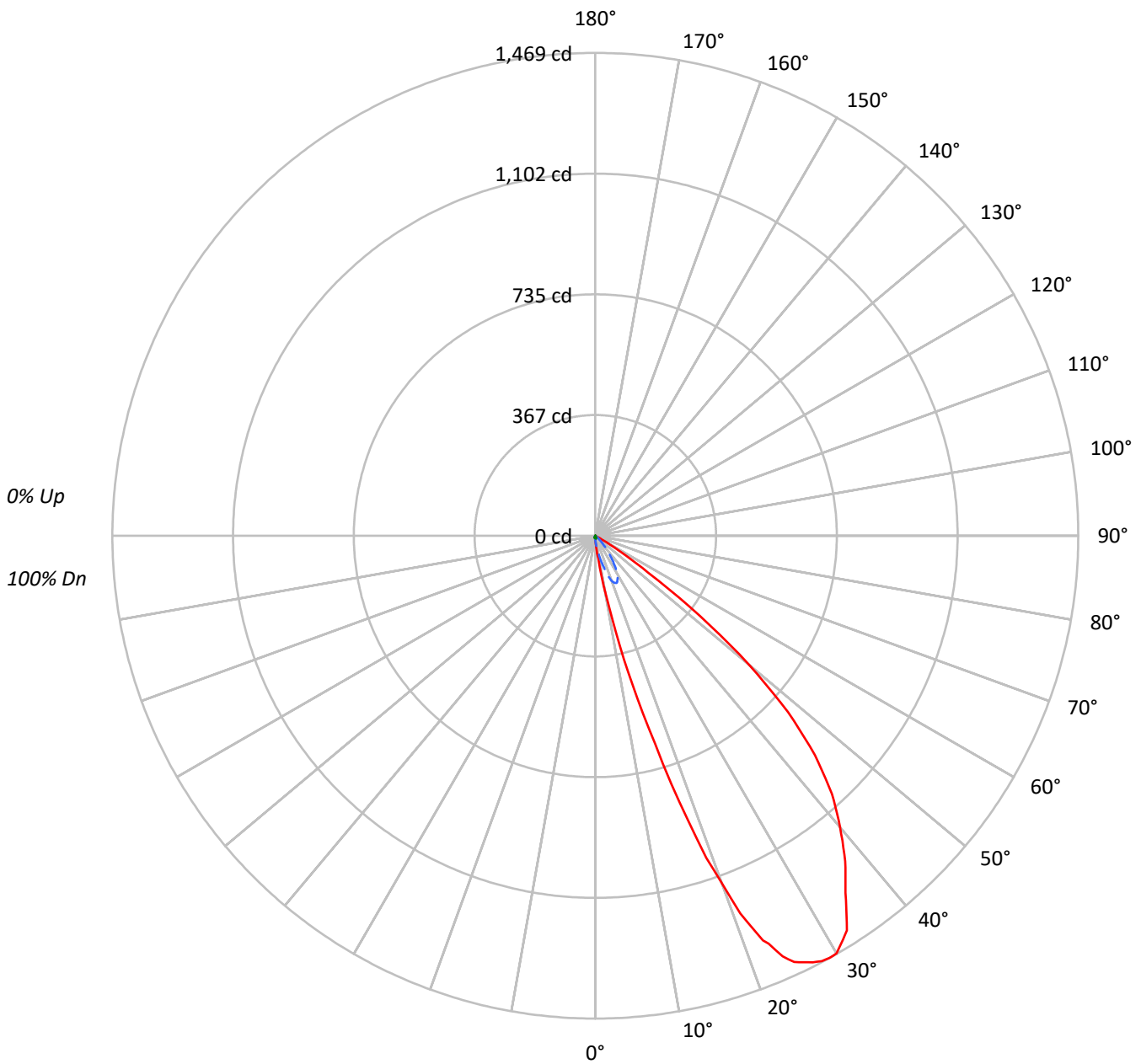
Lumens per Lamp: N/A  
Luminaire Lumens: 396.5 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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					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	75	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	83	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	46	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°	6611	6611	6611
5°	20751	5794	3615
10°	88472	4910	2655
15°	285876	3575	2145
20°	589183	2205	1470
25°	779040	1089	925
30°	835614	456	456
35°	798568	361	181
40°	745538	193	0
45°	658996	0	0
50°	467889	230	0
55°	167729	258	0
60°	25852	592	0
65°	1284	700	0
70°	0	865	0
75°	0	1144	572
80°	0	1705	0
85°	0	3396	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.4	0.6
10°-20°	32.1	8.1
20°-30°	107.4	27.1
30°-40°	135.3	34.1
40°-50°	95.7	24.1
50°-60°	22.1	5.6
60°-70°	0.7	0.2
70°-80°	0.5	0.1
80°-90°	0.4	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°	141.8	35.8
0°-40°	277.1	69.9
0°-60°	394.9	99.6
0°-90°	396.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	396.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	42	27	12	8	7	8
15°	560	99	7	5	4	184
25°	1431	156	2	2	2	645
35°	1326	92	1	1	0	830
45°	944	23	0	0	0	708
55°	195	1	0	0	0	221
65°	1	0	1	1	0	4
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°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
1°	16.7	16.2	15.3	14.0	12.6	12.0	12.0	11.2	11.2
2°	20.1	19.3	17.6	14.8	12.6	11.2	10.6	10.0	9.8
3°	25.9	23.7	20.1	15.9	12.3	10.6	10.3	8.9	8.9
4°	32.4	30.1	23.2	16.7	12.0	10.0	8.9	8.4	8.1
5°	41.9	36.8	27.3	17.6	11.7	9.5	8.4	7.5	7.3
6°	54.1	47.2	31.2	18.4	11.4	8.9	7.8	7.0	6.7
7°	68.1	58.6	36.0	19.3	10.9	8.4	7.3	6.7	6.4
8°	97.7	75.3	41.6	19.8	10.6	7.8	7.0	6.1	5.9
9°	130.6	97.4	47.7	20.6	10.0	7.5	6.4	5.9	5.6
10°	176.6	127.5	54.7	21.2	9.8	7.0	5.9	5.6	5.3
11°	222.4	164.9	63.3	21.5	9.2	6.1	5.9	5.6	5.3
12°	297.7	200.6	70.9	21.5	8.6	5.9	5.3	5.0	4.7
13°	387.0	262.0	81.8	21.8	7.8	5.6	5.0	4.7	4.7
14°	465.7	317.0	89.0	21.8	7.5	5.0	4.7	4.7	4.5
15°	559.7	370.5	98.8	21.5	7.0	4.7	4.7	4.5	4.2
16°	658.2	450.9	111.9	20.9	6.4	4.2	4.5	3.9	3.6
17°	788.8	517.3	121.9	20.4	5.9	3.9	3.9	3.9	3.6
18°	908.2	597.9	130.0	19.8	5.3	3.9	3.6	3.6	3.3
19°	1036.3	662.7	138.1	19.0	4.7	3.3	3.3	3.3	3.1
20°	1122.2	742.2	147.0	18.1	4.2	3.1	3.3	3.1	2.8
21°	1231.0	813.3	150.4	17.3	3.6	2.8	2.8	2.8	2.5
22.5°	1332.9	907.9	155.7	15.6	3.1	2.2	2.5	2.2	2.2
23°	1348.5	928.0	155.7	15.1	2.8	2.2	2.5	2.2	2.2
24°	1400.4	983.0	157.6	14.0	2.2	2.0	2.2	2.0	2.0
25°	1431.1	1026.5	156.2	12.8	2.0	2.0	2.0	2.0	1.7
26°	1443.6	1038.5	152.9	12.0	1.7	1.7	2.0	1.7	1.4
27°	1456.7	1065.8	148.7	10.9	1.4	1.7	1.7	1.7	1.4
28°	1465.9	1069.2	144.5	10.0	1.1	1.4	1.7	1.4	1.4
29°	1469.0	1073.7	139.5	8.9	0.8	1.1	1.4	1.1	1.1
30°	1466.8	1072.8	132.3	8.1	0.8	1.1	1.1	1.1	0.8
32.5°	1424.1	1048.8	112.2	5.9	0.6	0.8	0.8	0.8	0.6
35°	1325.9	993.6	91.5	3.9	0.6	0.6	0.6	0.6	0.3
37.5°	1248.3	911.0	70.0	2.2	0.3	0.6	0.6	0.3	0.0
40°	1157.6	791.3	50.5	1.4	0.3	0.3	0.3	0.0	0.0
42.5°	1065.6	669.4	34.3	0.6	0.0	0.3	0.3	0.0	0.0
45°	944.5	512.6	22.6	0.3	0.0	0.3	0.0	0.0	0.0
47.5°	794.4	372.2	15.3	0.0	0.0	0.3	0.0	0.0	0.0
50°	609.6	208.4	8.6	0.0	0.3	0.3	0.3	0.0	0.0
52.5°	401.8	104.1	3.3	0.0	0.3	0.3	0.3	0.0	0.0
55°	195.0	55.8	1.1	0.3	0.3	0.6	0.3	0.0	0.0
57.5°	92.1	21.8	0.3	0.3	0.6	0.6	0.3	0.0	0.0
60°	26.2	4.5	0.3	0.3	0.6	0.6	0.3	0.3	0.0
62.5°	3.6	0.6	0.3	0.6	0.6	0.6	0.6	0.3	0.0
65°	1.1	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0
70°	0.0	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0
72.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
75°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.3
77.5°	0.0	0.3	0.6	0.6	0.8	0.6	0.6	0.3	0.0
80°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
82.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
85°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
87.5°	0.0	0.3	0.6	0.6	0.6	0.6	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)