

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: P493557

Luminaire Tested: **LDA2B059040R30D010 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: P493557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B059040R30D010 2LBD1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

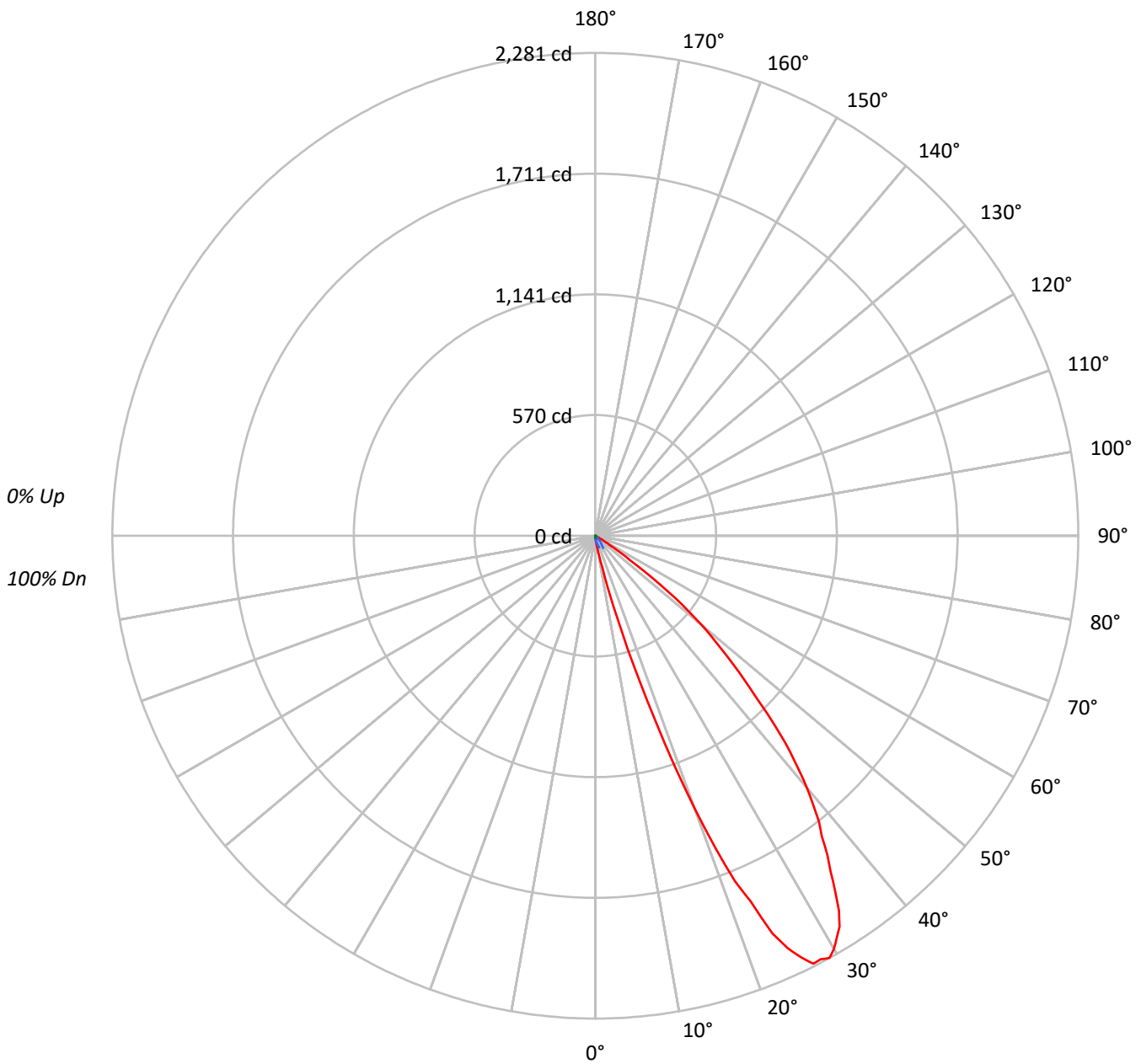
Lumens per Lamp: N/A  
Luminaire Lumens: 458.7 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): 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	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57	56					56			
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49					49			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39					39			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31					31			

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

	0°	90°	180°
0°	5082	5082	5082
5°	11044	4606	3318
10°	33164	4008	2154
15°	201088	2911	1686
20°	720019	1575	683
25°	1170166	544	0
30°	1284241	171	0
35°	1167105	0	0
40°	1001672	0	0
45°	742512	0	0
50°	502044	0	0
55°	169622	258	0
60°	24273	691	0
65°	1985	817	0
70°	0	1010	0
75°	0	1906	0
80°	0	1989	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.3	0.3
10°-20°	23.6	5.2
20°-30°	134.1	29.2
30°-40°	174.8	38.1
40°-50°	102.4	22.3
50°-60°	20.7	4.5
60°-70°	0.8	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°	159.1	34.7
0°-40°	333.9	72.8
0°-60°	456.9	99.6
0°-90°	458.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	458.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	9	7	7	3
15°	394	45	6	4	3	167
25°	2150	76	1	1	0	951
35°	1938	55	0	0	0	1207
45°	1064	14	0	0	0	831
55°	197	1	0	0	0	230
65°	2	0	1	1	0	5
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°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
2.5°	14.0	13.0	12.3	10.6	9.6	9.0	8.6	8.3	8.0
5°	22.3	20.6	16.0	11.6	9.3	8.0	7.3	6.7	6.7
7.5°	38.2	30.9	21.0	12.3	8.6	7.0	6.3	5.3	5.0
10°	66.2	51.5	28.6	13.0	8.0	6.3	5.0	4.7	4.3
12.5°	155.3	94.1	36.2	13.0	7.0	5.3	4.3	4.0	3.7
15°	393.7	191.9	44.9	12.3	5.7	4.0	3.7	3.3	3.3
17.5°	816.7	394.1	54.5	11.3	4.7	3.0	2.7	2.3	2.3
20°	1371.4	706.3	63.8	9.6	3.0	2.0	1.7	1.3	1.3
21°	1575.6	819.7	68.5	9.0	2.7	1.7	1.3	1.3	1.0
22°	1759.2	923.8	71.2	8.6	2.0	1.3	1.3	1.0	1.0
23°	1877.6	1055.8	73.5	7.6	1.7	1.0	1.0	0.7	0.3
24°	2056.1	1159.3	74.5	7.0	1.3	1.0	0.7	0.3	0.3
25°	2149.6	1253.0	75.5	6.3	1.0	1.0	0.7	0.3	0.0
26°	2216.8	1327.2	79.1	6.0	1.0	0.7	0.7	0.3	0.0
27°	2269.3	1374.4	81.1	5.3	0.7	0.7	0.7	0.0	0.0
28°	2266.3	1408.7	79.5	4.7	0.7	0.7	0.3	0.0	0.0
29°	2280.6	1431.9	78.5	4.0	0.3	0.3	0.3	0.0	0.0
30°	2254.3	1433.9	74.8	3.7	0.3	0.3	0.3	0.0	0.0
31°	2214.4	1409.7	73.5	3.3	0.0	0.3	0.3	0.0	0.0
32°	2176.9	1398.7	69.2	2.7	0.0	0.3	0.3	0.0	0.0
33°	2112.3	1349.5	64.8	2.3	0.0	0.3	0.0	0.0	0.0
34°	2025.9	1301.3	60.9	2.0	0.0	0.3	0.0	0.0	0.0
35°	1937.8	1261.4	55.2	2.0	0.0	0.3	0.0	0.0	0.0
36°	1864.6	1188.9	51.2	1.7	0.0	0.3	0.0	0.0	0.0
37°	1775.8	1126.7	45.9	1.3	0.0	0.0	0.0	0.0	0.0
38°	1715.3	1039.2	41.9	1.3	0.0	0.0	0.0	0.0	0.0
39°	1633.8	965.4	36.9	1.0	0.0	0.0	0.0	0.0	0.0
40°	1555.3	888.9	31.9	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1330.2	685.7	21.9	0.3	0.0	0.0	0.0	0.0	0.0
45°	1064.2	502.8	13.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	845.0	339.5	8.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	654.1	174.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	435.0	74.2	3.0	0.0	0.0	0.3	0.0	0.0	0.0
55°	197.2	38.6	1.3	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	79.5	16.6	0.7	0.3	0.3	0.3	0.3	0.0	0.0
60°	24.6	4.7	0.3	0.3	0.7	0.7	0.3	0.0	0.0
62.5°	5.0	1.0	0.3	0.7	0.7	0.7	0.3	0.0	0.0
65°	1.7	0.3	0.3	0.7	0.7	0.7	0.7	0.0	0.0
67.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.0
70°	0.0	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.0
72.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
75°	0.0	0.3	0.7	0.7	1.0	1.0	0.7	0.3	0.0
77.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
80°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
85°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.0	0.0
87.5°	0.0	0.3	0.7	0.7	0.7	0.7	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)