

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: P492949

Luminaire Tested: **LDA2B059027R35D010 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: P492949  
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: LDA2B059027R35D010 2LBD1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

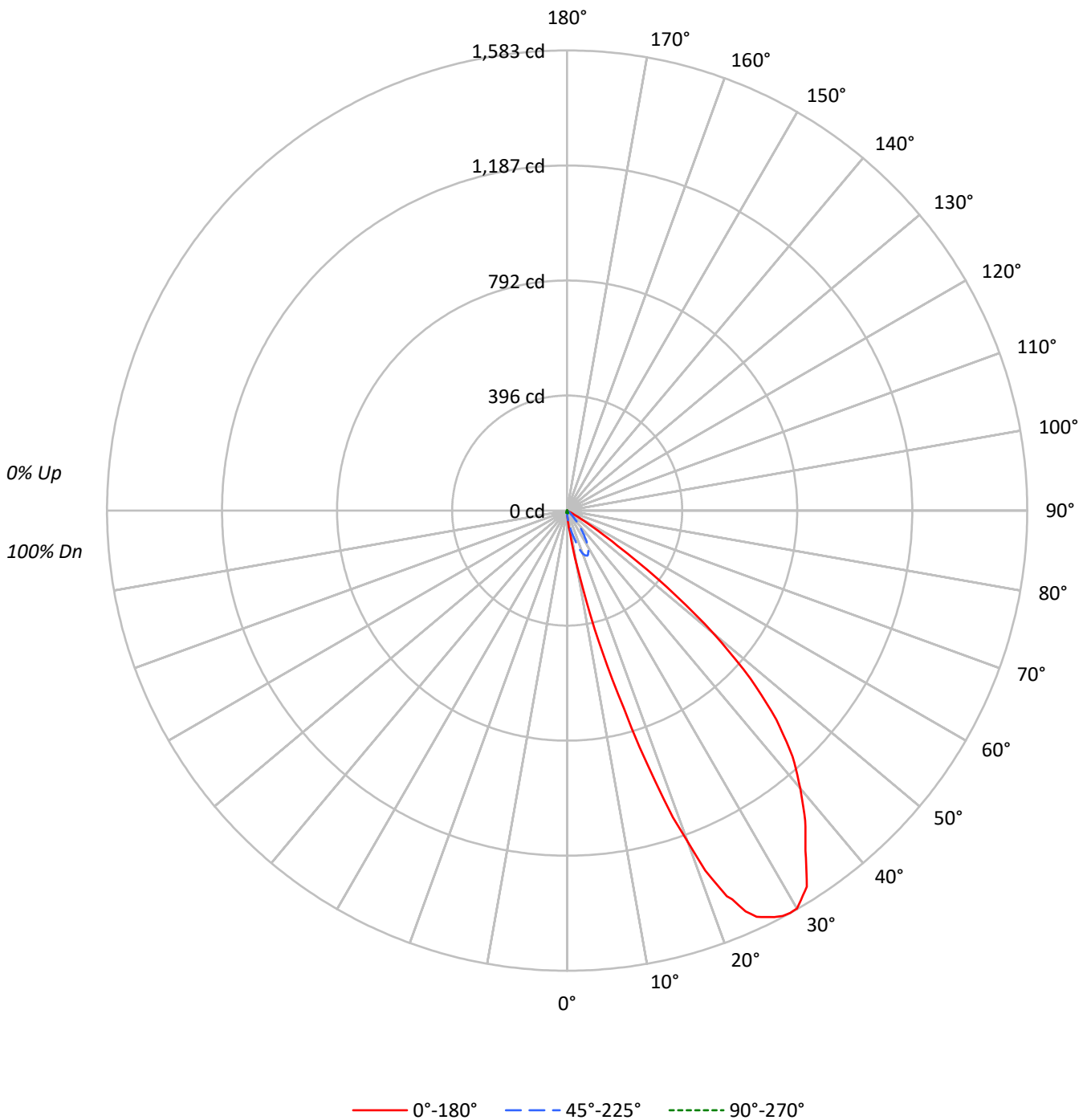
Lumens per Lamp: N/A  
Luminaire Lumens: 427.1 lumens  
Efficiency: N/A  
Efficacy: 61.0 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (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





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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°	7104	7104	7104
5°	22336	6240	3863
10°	95335	5260	2856
15°	308043	3831	2298
20°	634860	2363	1575
25°	839410	1143	980
30°	900330	513	513
35°	860422	361	181
40°	803309	193	0
45°	710069	0	0
50°	504194	230	0
55°	180718	258	0
60°	27924	592	0
65°	1401	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°	2.5	0.6
10°-20°	34.6	8.1
20°-30°	115.7	27.1
30°-40°	145.8	34.1
40°-50°	103.1	24.1
50°-60°	23.8	5.6
60°-70°	0.8	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°	152.8	35.8
0°-40°	298.6	69.9
0°-60°	425.5	99.6
0°-90°	427.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	427.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	45	30	13	9	8	8
15°	603	106	8	5	4	199
25°	1542	168	2	2	2	695
35°	1429	99	1	1	0	894
45°	1018	24	0	0	0	763
55°	210	1	0	0	0	238
65°	1	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°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
1°	18.0	17.4	16.5	15.0	13.5	12.9	12.9	12.0	12.0
2°	21.6	20.7	18.9	15.9	13.5	12.0	11.4	10.8	10.5
3°	28.0	25.6	21.6	17.1	13.2	11.4	11.1	9.6	9.6
4°	34.9	32.5	25.0	18.0	12.9	10.8	9.6	9.0	8.7
5°	45.1	39.7	29.5	18.9	12.6	10.2	9.0	8.1	7.8
6°	58.3	50.8	33.7	19.8	12.3	9.6	8.4	7.5	7.2
7°	73.4	63.1	38.8	20.7	11.7	9.0	7.8	7.2	6.9
8°	105.2	81.2	44.8	21.3	11.4	8.4	7.5	6.6	6.3
9°	140.7	104.9	51.4	22.2	10.8	8.1	6.9	6.3	6.0
10°	190.3	137.4	58.9	22.8	10.5	7.5	6.3	6.0	5.7
11°	239.6	177.7	68.2	23.1	9.9	6.6	6.3	6.0	5.7
12°	320.8	216.2	76.4	23.1	9.3	6.3	5.7	5.4	5.1
13°	417.0	282.3	88.1	23.4	8.4	6.0	5.4	5.1	5.1
14°	501.8	341.5	95.9	23.4	8.1	5.4	5.1	5.1	4.8
15°	603.1	399.2	106.4	23.1	7.5	5.1	5.1	4.8	4.5
16°	709.2	485.8	120.6	22.5	6.9	4.5	4.8	4.2	3.9
17°	849.9	557.4	131.4	21.9	6.3	4.2	4.2	4.2	3.9
18°	978.6	644.3	140.1	21.3	5.7	4.2	3.9	3.9	3.6
19°	1116.6	714.0	148.8	20.4	5.1	3.6	3.6	3.6	3.3
20°	1209.2	799.7	158.4	19.5	4.5	3.3	3.6	3.3	3.0
21°	1326.4	876.4	162.0	18.6	3.9	3.0	3.0	3.0	2.7
22.5°	1436.1	978.3	167.8	16.8	3.3	2.4	2.7	2.4	2.4
23°	1453.0	999.9	167.8	16.2	3.0	2.4	2.7	2.4	2.4
24°	1508.9	1059.1	169.9	15.0	2.4	2.1	2.4	2.1	2.1
25°	1542.0	1106.0	168.4	13.8	2.1	2.1	2.1	2.1	1.8
26°	1555.5	1119.0	164.7	12.9	1.8	1.8	2.1	1.8	1.5
27°	1569.6	1148.4	160.2	11.7	1.5	1.8	1.8	1.8	1.5
28°	1579.5	1152.0	155.7	10.8	1.2	1.5	1.8	1.5	1.5
29°	1582.9	1156.9	150.3	9.6	0.9	1.2	1.5	1.2	1.2
30°	1580.4	1155.9	142.5	8.7	0.9	1.2	1.2	1.2	0.9
32.5°	1534.5	1130.1	120.9	6.3	0.6	0.9	0.9	0.9	0.6
35°	1428.6	1070.6	98.6	4.2	0.6	0.6	0.6	0.6	0.3
37.5°	1345.1	981.6	75.5	2.4	0.3	0.6	0.6	0.3	0.0
40°	1247.3	852.6	54.4	1.5	0.3	0.3	0.3	0.0	0.0
42.5°	1148.1	721.2	37.0	0.6	0.0	0.3	0.3	0.0	0.0
45°	1017.7	552.3	24.4	0.3	0.0	0.3	0.0	0.0	0.0
47.5°	855.9	401.0	16.5	0.0	0.0	0.3	0.0	0.0	0.0
50°	656.9	224.6	9.3	0.0	0.3	0.3	0.3	0.0	0.0
52.5°	432.9	112.1	3.6	0.0	0.3	0.3	0.3	0.0	0.0
55°	210.1	60.1	1.2	0.3	0.3	0.6	0.3	0.0	0.0
57.5°	99.2	23.4	0.3	0.3	0.6	0.6	0.3	0.0	0.0
60°	28.3	4.8	0.3	0.3	0.6	0.6	0.3	0.3	0.0
62.5°	3.9	0.6	0.3	0.6	0.6	0.6	0.6	0.3	0.0
65°	1.2	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	0.9	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)