

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: P491653

Luminaire Tested: **LDA2B058027R35D010 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: P491653
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: LDA2B058027R35D010 2LBD1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

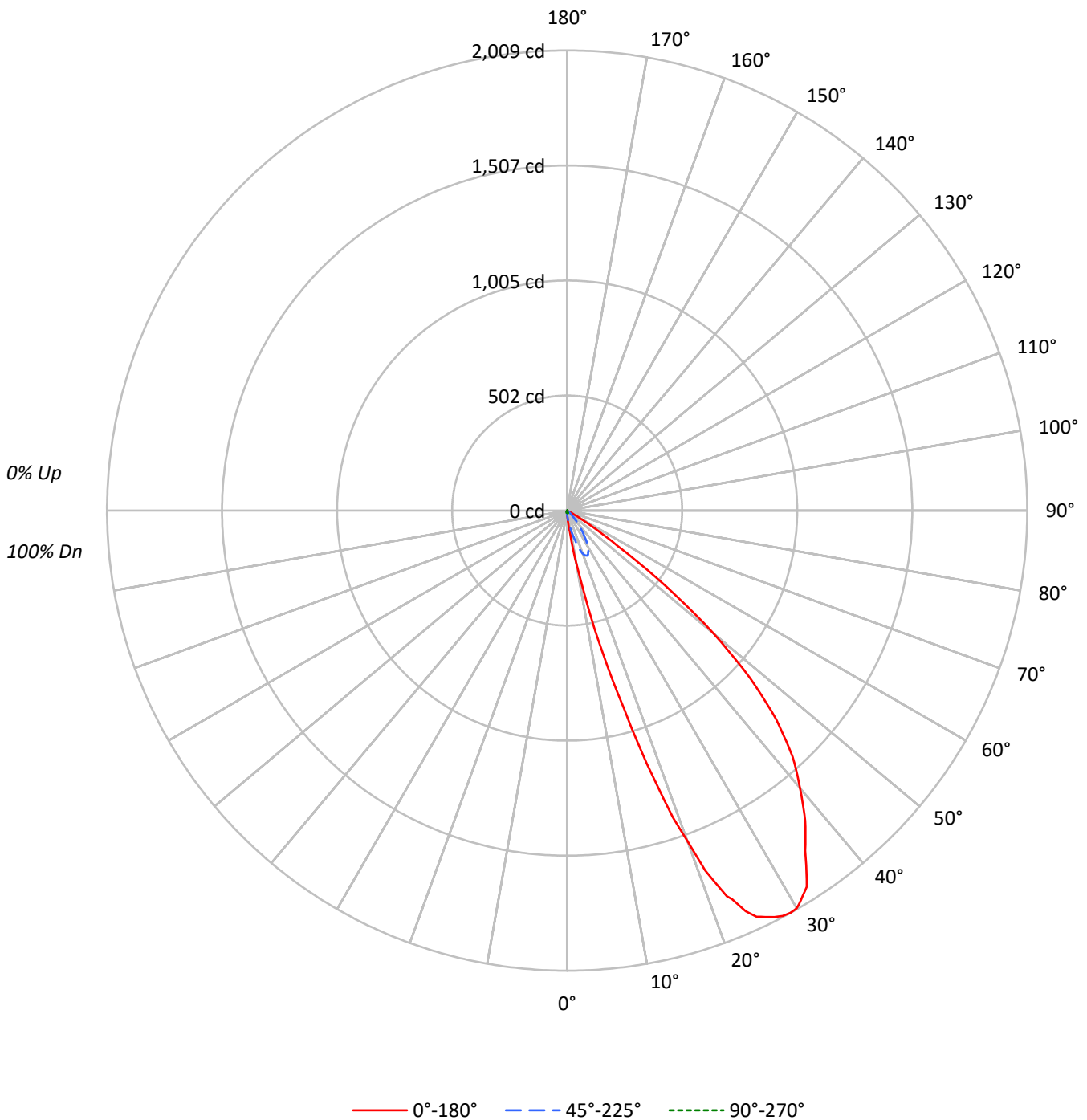
Lumens per Lamp: N/A
Luminaire Lumens: 542.1 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	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	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°	9029	9029	9029
5°	28328	7924	4903
10°	120985	6713	3607
15°	390889	4852	2911
20°	805598	2993	1995
25°	1065158	1470	1252
30°	1142504	627	627
35°	1091880	482	241
40°	1019383	258	0
45°	901034	0	0
50°	639817	307	0
55°	229402	344	0
60°	35423	789	0
65°	1751	934	0
70°	0	1154	0
75°	0	1525	762
80°	0	2273	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.6
10°-20°	43.9	8.1
20°-30°	146.8	27.1
30°-40°	185.0	34.1
40°-50°	130.8	24.1
50°-60°	30.2	5.6
60°-70°	1.0	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°	193.9	35.8
0°-40°	378.9	69.9
0°-60°	539.9	99.6
0°-90°	542.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	542.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	57	37	16	11	10	11
15°	765	135	10	6	6	252
25°	1957	214	3	3	2	882
35°	1813	125	1	1	0	1135
45°	1291	31	0	0	0	968
55°	267	2	0	0	0	302
65°	2	0	1	1	0	6
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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
1°	22.9	22.1	21.0	19.1	17.2	16.4	16.4	15.3	15.3
2°	27.5	26.3	24.0	20.2	17.2	15.3	14.5	13.7	13.4
3°	35.5	32.4	27.5	21.7	16.8	14.5	14.1	12.2	12.2
4°	44.3	41.2	31.7	22.9	16.4	13.7	12.2	11.4	11.1
5°	57.2	50.4	37.4	24.0	16.0	13.0	11.4	10.3	9.9
6°	74.0	64.5	42.7	25.2	15.6	12.2	10.7	9.5	9.2
7°	93.1	80.1	49.2	26.3	14.9	11.4	9.9	9.2	8.8
8°	133.5	103.0	56.8	27.1	14.5	10.7	9.5	8.4	8.0
9°	178.5	133.1	65.2	28.2	13.7	10.3	8.8	8.0	7.6
10°	241.5	174.3	74.8	29.0	13.4	9.5	8.0	7.6	7.2
11°	304.1	225.5	86.6	29.4	12.6	8.4	8.0	7.6	7.2
12°	407.1	274.3	96.9	29.4	11.8	8.0	7.2	6.9	6.5
13°	529.1	358.2	111.8	29.8	10.7	7.6	6.9	6.5	6.5
14°	636.7	433.4	121.7	29.8	10.3	6.9	6.5	6.5	6.1
15°	765.3	506.6	135.1	29.4	9.5	6.5	6.5	6.1	5.7
16°	900.0	616.5	153.0	28.6	8.8	5.7	6.1	5.3	5.0
17°	1078.5	707.3	166.7	27.8	8.0	5.3	5.3	5.3	5.0
18°	1241.8	817.6	177.8	27.1	7.2	5.3	5.0	5.0	4.6
19°	1416.9	906.1	188.8	25.9	6.5	4.6	4.6	4.6	4.2
20°	1534.4	1014.8	201.1	24.8	5.7	4.2	4.6	4.2	3.8
21°	1683.2	1112.1	205.6	23.7	5.0	3.8	3.8	3.8	3.4
22.5°	1822.4	1241.4	212.9	21.4	4.2	3.1	3.4	3.1	3.1
23°	1843.8	1268.9	212.9	20.6	3.8	3.1	3.4	3.1	3.1
24°	1914.7	1344.0	215.5	19.1	3.1	2.7	3.1	2.7	2.7
25°	1956.7	1403.5	213.6	17.5	2.7	2.7	2.7	2.7	2.3
26°	1973.9	1419.9	209.1	16.4	2.3	2.3	2.7	2.3	1.9
27°	1991.8	1457.3	203.3	14.9	1.9	2.3	2.3	2.3	1.9
28°	2004.4	1461.9	197.6	13.7	1.5	1.9	2.3	1.9	1.9
29°	2008.6	1468.0	190.7	12.2	1.1	1.5	1.9	1.5	1.5
30°	2005.5	1466.9	180.8	11.1	1.1	1.5	1.5	1.5	1.1
32.5°	1947.2	1434.1	153.4	8.0	0.8	1.1	1.1	1.1	0.8
35°	1812.9	1358.5	125.1	5.3	0.8	0.8	0.8	0.8	0.4
37.5°	1706.8	1245.6	95.8	3.1	0.4	0.8	0.8	0.4	0.0
40°	1582.8	1081.9	69.1	1.9	0.4	0.4	0.4	0.0	0.0
42.5°	1456.9	915.2	46.9	0.8	0.0	0.4	0.4	0.0	0.0
45°	1291.4	700.8	30.9	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1086.1	508.9	21.0	0.0	0.0	0.4	0.0	0.0	0.0
50°	833.6	285.0	11.8	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	549.4	142.3	4.6	0.0	0.4	0.4	0.4	0.0	0.0
55°	266.7	76.3	1.5	0.4	0.4	0.8	0.4	0.0	0.0
57.5°	125.9	29.8	0.4	0.4	0.8	0.8	0.4	0.0	0.0
60°	35.9	6.1	0.4	0.4	0.8	0.8	0.4	0.4	0.0
62.5°	5.0	0.8	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.5	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4
77.5°	0.0	0.4	0.8	0.8	1.1	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
82.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.4	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)