

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: P497835

Luminaire Tested: **LDA2B158040R20D010 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: P497835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B158040R20D010 2LBD1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

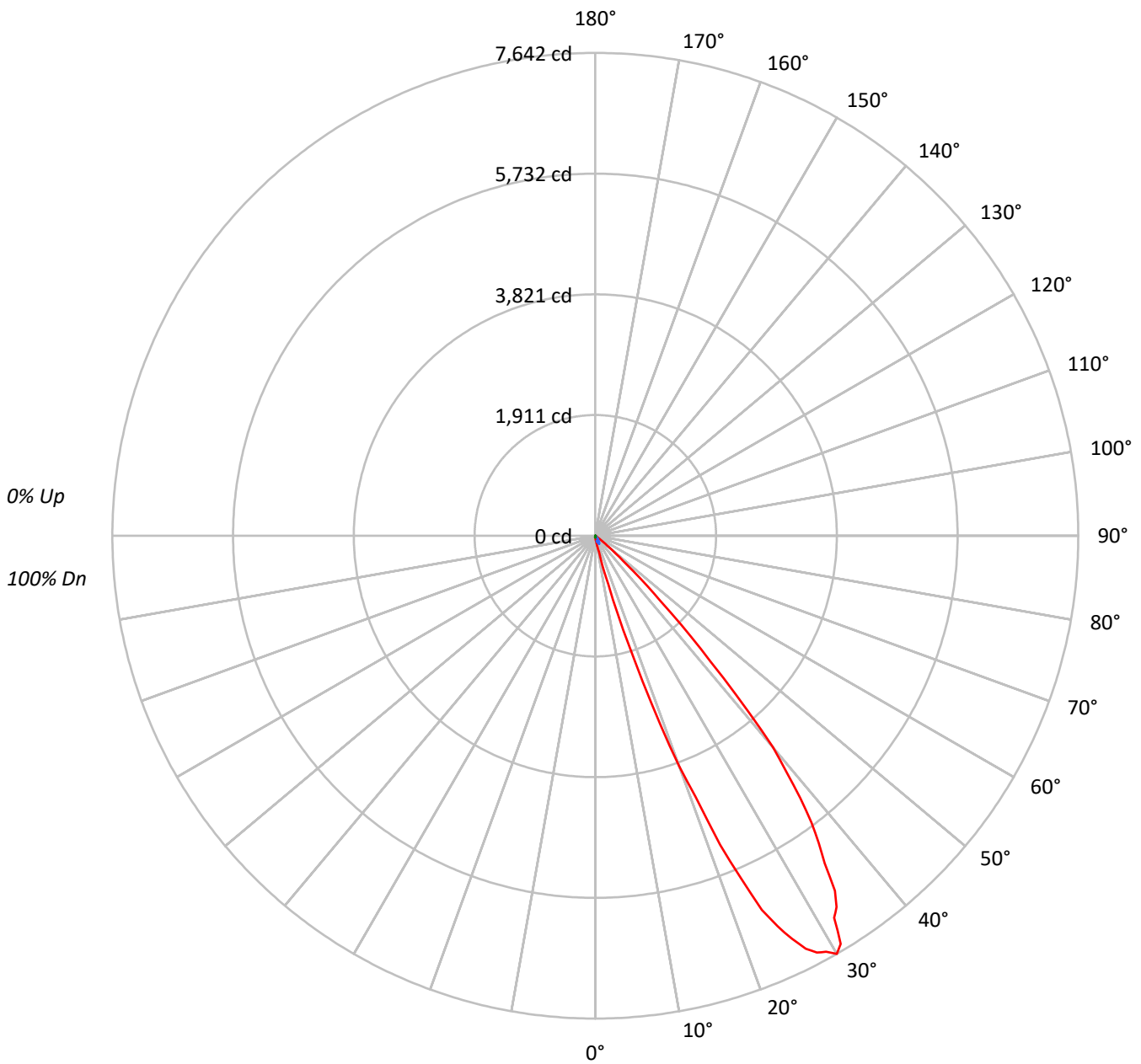
Lumens per Lamp: N/A
Luminaire Lumens: 964.9 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): 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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15344	15344	15344
5°	29319	13570	9905
10°	70036	11873	6663
15°	408102	9449	2656
20°	2035678	5828	788
25°	3711858	2014	0
30°	4353591	0	0
35°	3810527	0	0
40°	2813996	0	0
45°	1014274	0	0
50°	211226	0	0
55°	48340	602	0
60°	15294	691	0
65°	3502	1751	0
70°	0	2164	1010
75°	0	2859	0
80°	0	4262	0
85°	0	8491	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.4
10°-20°	53.0	5.5
20°-30°	357.3	37.0
30°-40°	417.5	43.3
40°-50°	121.7	12.6
50°-60°	8.1	0.8
60°-70°	1.5	0.2
70°-80°	1.2	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°	413.9	42.9
0°-40°	831.3	86.2
0°-60°	961.2	99.6
0°-90°	964.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	59	43	27	23	20	8
15°	799	90	18	10	5	417
25°	6819	140	4	0	0	3019
35°	6327	76	0	0	0	3887
45°	1454	16	0	0	0	1340
55°	56	3	1	1	0	72
65°	3	2	2	2	0	5
75°	0	2	2	2	0	0
85°	0	2	2	2	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°	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
2.5°	39.9	39.9	35.5	31.8	28.9	27.4	26.6	25.2	24.4
5°	59.2	51.8	42.9	33.3	27.4	25.2	22.9	20.7	20.0
7.5°	86.6	75.5	51.8	34.0	25.9	22.2	20.0	17.8	16.3
10°	139.8	108.8	63.6	34.0	23.7	19.2	16.3	14.1	13.3
12.5°	258.2	166.5	76.2	33.3	21.5	16.3	12.6	11.1	8.9
15°	799.0	344.7	90.3	31.8	18.5	12.6	9.6	5.9	5.2
17.5°	2066.3	804.9	100.6	28.1	14.8	8.9	4.4	3.7	3.7
20°	3877.3	1459.6	115.4	24.4	11.1	5.9	3.0	2.2	1.5
21°	4423.3	1785.9	122.8	22.9	9.6	3.7	2.2	0.7	0.7
22°	5271.8	2141.7	128.7	21.5	8.1	2.2	1.5	0.7	0.0
23°	5876.2	2368.8	134.6	19.2	5.9	2.2	0.7	0.0	0.0
24°	6480.7	2658.1	138.3	17.8	5.2	1.5	0.7	0.0	0.0
25°	6818.7	2899.3	139.8	16.3	3.7	0.7	0.0	0.0	0.0
26°	7096.9	3060.6	140.6	14.8	2.2	0.0	0.0	0.0	0.0
27°	7335.1	3247.7	139.1	13.3	2.2	0.0	0.0	0.0	0.0
28°	7470.5	3278.8	136.9	11.8	0.7	0.0	0.0	0.0	0.0
29°	7528.9	3241.1	130.2	10.4	0.7	0.0	0.0	0.0	0.0
30°	7642.1	3205.6	123.5	9.6	0.0	0.0	0.0	0.0	0.0
31°	7537.8	3087.9	115.4	8.1	0.0	0.0	0.0	0.0	0.0
32°	7129.5	2988.8	105.8	6.7	0.0	0.0	0.0	0.0	0.0
33°	7007.4	2785.3	95.4	5.9	0.0	0.0	0.0	0.0	0.0
34°	6777.3	2482.8	86.6	5.2	0.0	0.0	0.0	0.0	0.0
35°	6326.8	2232.7	75.5	4.4	0.0	0.0	0.0	0.0	0.0
36°	6012.4	1947.2	65.8	3.7	0.0	0.0	0.0	0.0	0.0
37°	5683.1	1697.8	58.4	3.0	0.0	0.0	0.0	0.0	0.0
38°	5274.0	1436.0	49.6	2.2	0.0	0.0	0.0	0.0	0.0
39°	4797.6	1186.6	42.2	2.2	0.0	0.0	0.0	0.0	0.0
40°	4369.3	956.6	36.3	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	2696.6	546.0	21.5	1.5	0.0	0.0	0.0	0.0	0.0
45°	1453.7	331.4	15.5	0.7	0.0	0.0	0.0	0.0	0.0
47.5°	669.5	154.6	11.1	0.7	0.0	0.0	0.0	0.0	0.0
50°	275.2	68.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	99.1	38.5	5.2	0.0	0.0	0.7	0.0	0.0	0.0
55°	56.2	22.2	3.0	0.7	0.7	0.7	0.7	0.0	0.0
57.5°	26.6	12.6	0.7	0.7	0.7	0.7	0.7	0.0	0.0
60°	15.5	6.7	0.7	0.7	0.7	1.5	0.7	0.0	0.0
62.5°	7.4	2.2	0.7	1.5	1.5	1.5	1.5	0.7	0.0
65°	3.0	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.0
67.5°	0.7	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.7
70°	0.0	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.7
72.5°	0.0	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.7
75°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
77.5°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
80°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	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	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
85°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
87.5°	0.0	0.7	1.5	1.5	1.5	1.5	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)