

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: P497445

Luminaire Tested: **LDA2B158030R30D010 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: P497445
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: LDA2B158030R30D010 2LBD1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

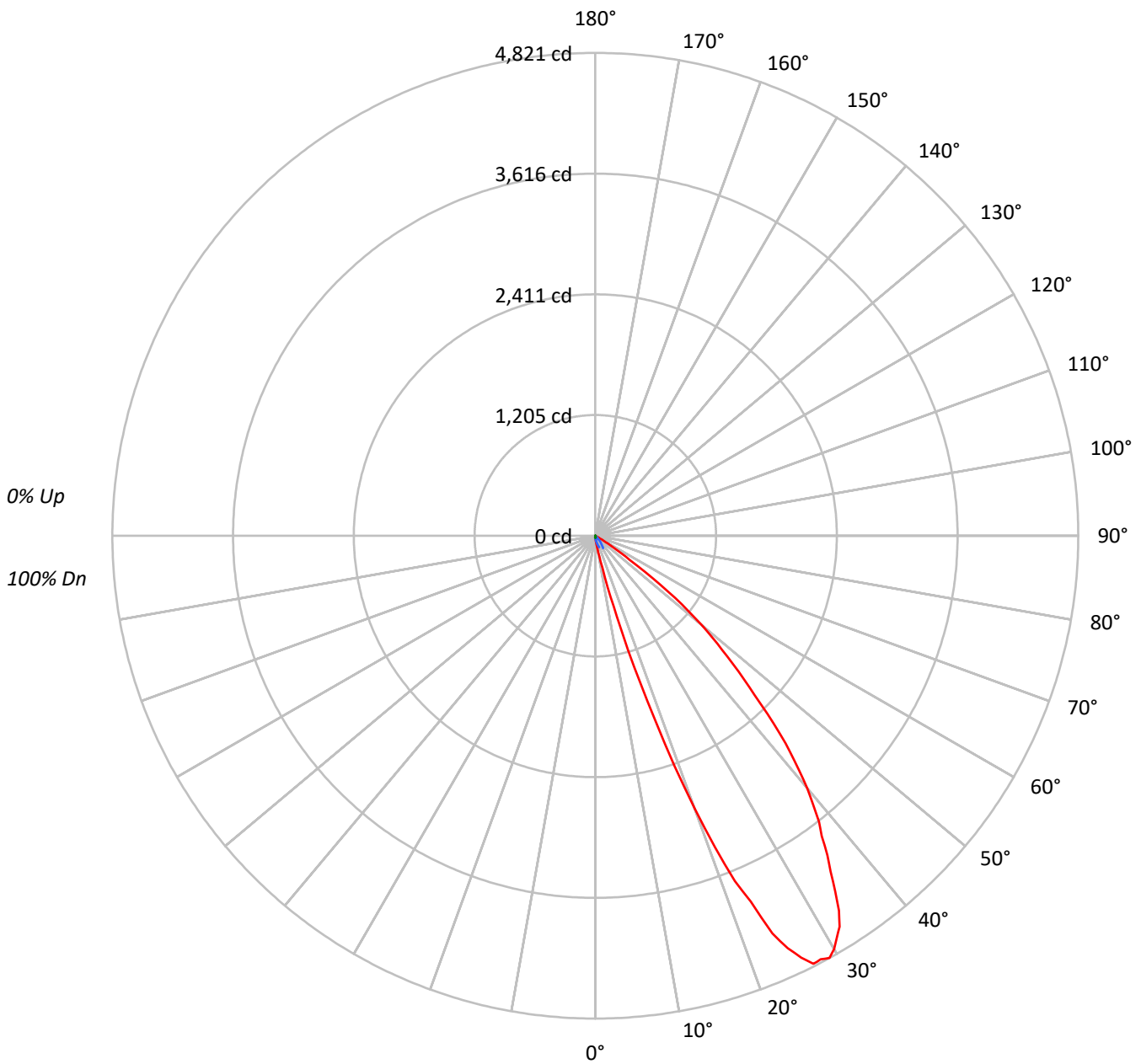
Lumens per Lamp: N/A
Luminaire Lumens: 969.6 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10755	10755	10755
5°	23326	9756	6983
10°	70086	8466	4559
15°	425110	6078	3575
20°	1521994	3308	1470
25°	2473429	1143	0
30°	2714664	399	0
35°	2466953	0	0
40°	2117340	0	0
45°	1569449	0	0
50°	1061270	0	0
55°	358511	602	0
60°	51310	1381	0
65°	4086	1634	0
70°	0	2019	0
75°	0	4003	0
80°	0	3978	0
85°	0	7925	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.3
10°-20°	50.0	5.2
20°-30°	283.5	29.2
30°-40°	369.4	38.1
40°-50°	216.4	22.3
50°-60°	43.7	4.5
60°-70°	1.7	0.2
70°-80°	1.2	0.1
80°-90°	0.9	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°	336.3	34.7
0°-40°	705.7	72.8
0°-60°	965.8	99.6
0°-90°	969.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	969.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	47	34	20	16	14	7
15°	832	95	12	8	7	352
25°	4544	160	2	1	0	2009
35°	4096	117	0	0	0	2551
45°	2249	29	0	0	0	1757
55°	417	3	1	1	0	486
65°	4	1	1	1	0	10
75°	0	1	2	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°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
2.5°	29.5	27.4	26.0	22.5	20.4	19.0	18.3	17.6	16.9
5°	47.1	43.6	33.7	24.6	19.7	16.9	15.5	14.1	14.1
7.5°	80.8	65.4	44.3	26.0	18.3	14.8	13.4	11.2	10.5
10°	139.9	109.0	60.5	27.4	16.9	13.4	10.5	9.8	9.1
12.5°	328.3	198.9	76.6	27.4	14.8	11.2	9.1	8.4	7.7
15°	832.3	405.6	94.9	26.0	11.9	8.4	7.7	7.0	7.0
17.5°	1726.4	833.0	115.3	23.9	9.8	6.3	5.6	4.9	4.9
20°	2898.9	1493.0	135.0	20.4	6.3	4.2	3.5	2.8	2.8
21°	3330.5	1732.7	144.8	19.0	5.6	3.5	2.8	2.8	2.1
22°	3718.5	1952.7	150.4	18.3	4.2	2.8	2.8	2.1	2.1
23°	3968.7	2231.8	155.3	16.2	3.5	2.1	2.1	1.4	0.7
24°	4346.2	2450.4	157.5	14.8	2.8	2.1	1.4	0.7	0.7
25°	4543.7	2648.6	159.6	13.4	2.1	2.1	1.4	0.7	0.0
26°	4685.7	2805.4	167.3	12.7	2.1	1.4	1.4	0.7	0.0
27°	4796.8	2905.2	171.5	11.2	1.4	1.4	1.4	0.0	0.0
28°	4790.5	2977.6	168.0	9.8	1.4	1.4	0.7	0.0	0.0
29°	4820.7	3026.8	165.9	8.4	0.7	0.7	0.7	0.0	0.0
30°	4765.2	3031.0	158.2	7.7	0.7	0.7	0.7	0.0	0.0
31°	4680.8	2979.7	155.3	7.0	0.0	0.7	0.7	0.0	0.0
32°	4601.4	2956.5	146.2	5.6	0.0	0.7	0.7	0.0	0.0
33°	4465.0	2852.5	137.1	4.9	0.0	0.7	0.0	0.0	0.0
34°	4282.3	2750.6	128.6	4.2	0.0	0.7	0.0	0.0	0.0
35°	4096.0	2666.2	116.7	4.2	0.0	0.7	0.0	0.0	0.0
36°	3941.3	2513.0	108.3	3.5	0.0	0.7	0.0	0.0	0.0
37°	3753.7	2381.5	97.0	2.8	0.0	0.0	0.0	0.0	0.0
38°	3625.7	2196.7	88.6	2.8	0.0	0.0	0.0	0.0	0.0
39°	3453.5	2040.6	78.0	2.1	0.0	0.0	0.0	0.0	0.0
40°	3287.6	1878.9	67.5	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	2811.7	1449.4	46.4	0.7	0.0	0.0	0.0	0.0	0.0
45°	2249.4	1062.8	28.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1786.1	717.7	18.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	1382.7	369.7	10.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	919.4	156.8	6.3	0.0	0.0	0.7	0.0	0.0	0.0
55°	416.8	81.5	2.8	0.0	0.7	0.7	0.7	0.0	0.0
57.5°	168.0	35.1	1.4	0.7	0.7	0.7	0.7	0.0	0.0
60°	52.0	9.8	0.7	0.7	1.4	1.4	0.7	0.0	0.0
62.5°	10.5	2.1	0.7	1.4	1.4	1.4	0.7	0.0	0.0
65°	3.5	0.7	0.7	1.4	1.4	1.4	1.4	0.0	0.0
67.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0
70°	0.0	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.0
72.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
75°	0.0	0.7	1.4	1.4	2.1	2.1	1.4	0.7	0.0
77.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
80°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	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	1.4	1.4	1.4	1.4	1.4	0.7	0.0
85°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.0	0.0
87.5°	0.0	0.7	1.4	1.4	1.4	1.4	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)