

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: P497877

Luminaire Tested: **LDA2B158040R30D010 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: P497877
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: LDA2B158040R30D010 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

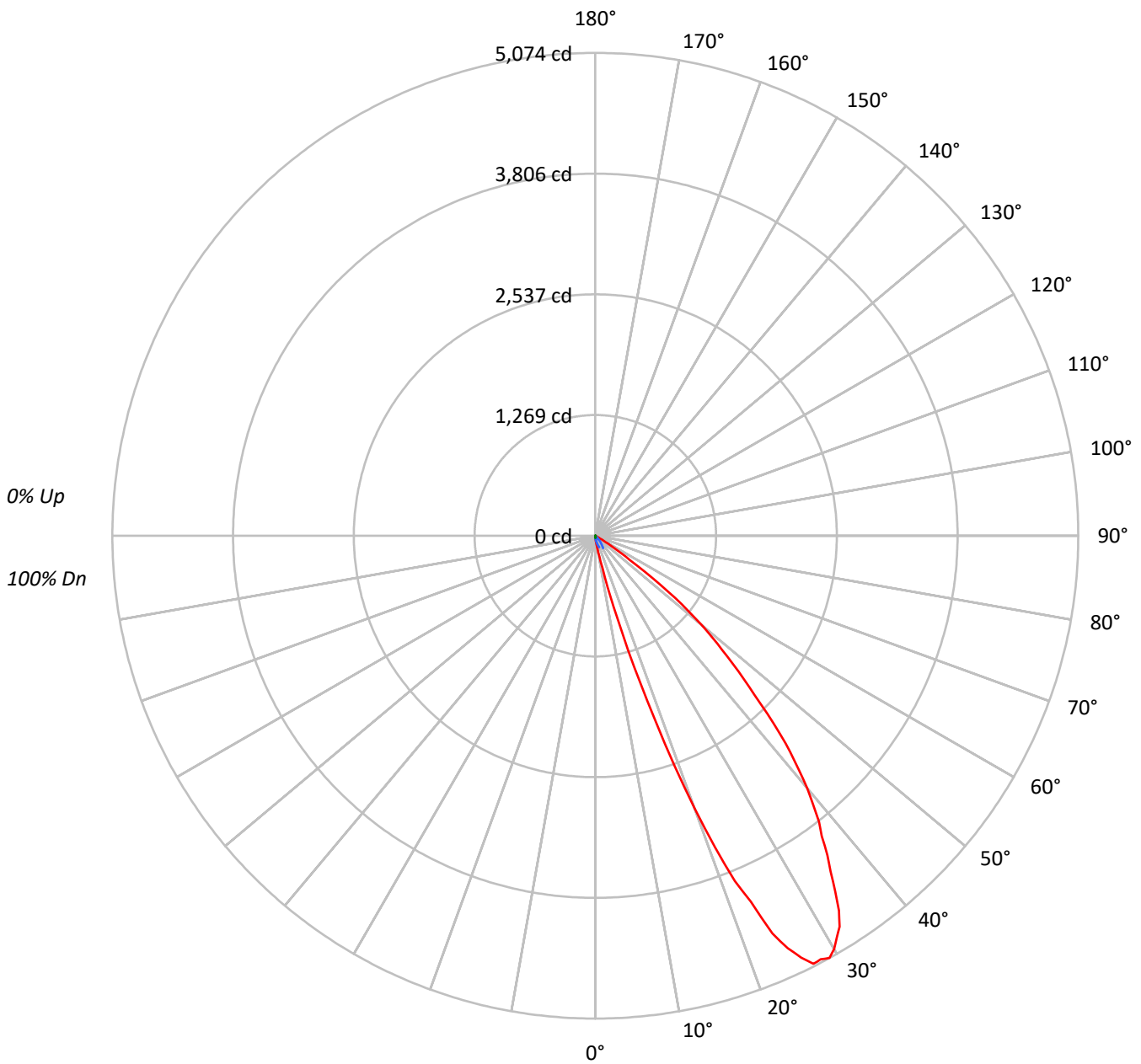
Lumens per Lamp: N/A
Luminaire Lumens: 1020.5 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	11298	11298	11298
5°	24564	10252	7330
10°	73743	8917	4809
15°	447380	6436	3780
20°	1601798	3518	1575
25°	2603205	1198	0
30°	2857028	399	0
35°	2596324	0	0
40°	2228372	0	0
45°	1651780	0	0
50°	1116916	0	0
55°	377348	602	0
60°	53974	1480	0
65°	4319	1751	0
70°	0	2164	0
75°	0	4194	0
80°	0	4262	0
85°	0	8491	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.3
10°-20°	52.6	5.2
20°-30°	298.4	29.2
30°-40°	388.8	38.1
40°-50°	227.7	22.3
50°-60°	46.0	4.5
60°-70°	1.8	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°	354.0	34.7
0°-40°	742.8	72.8
0°-60°	1016.5	99.6
0°-90°	1020.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	50	36	21	16	15	8
15°	876	100	13	8	7	371
25°	4782	168	2	2	0	2115
35°	4311	123	0	0	0	2685
45°	2367	30	0	0	0	1849
55°	439	3	1	1	0	512
65°	4	1	2	2	0	10
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°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	31.1	28.9	27.4	23.7	21.5	20.0	19.2	18.5	17.8
5°	49.6	45.9	35.5	25.9	20.7	17.8	16.3	14.8	14.8
7.5°	85.1	68.8	46.6	27.4	19.2	15.5	14.1	11.8	11.1
10°	147.2	114.7	63.6	28.9	17.8	14.1	11.1	10.4	9.6
12.5°	345.5	209.4	80.6	28.9	15.5	11.8	9.6	8.9	8.1
15°	875.9	426.9	99.9	27.4	12.6	8.9	8.1	7.4	7.4
17.5°	1817.0	876.7	121.3	25.2	10.4	6.7	5.9	5.2	5.2
20°	3050.9	1571.3	142.0	21.5	6.7	4.4	3.7	3.0	3.0
21°	3505.2	1823.6	152.4	20.0	5.9	3.7	3.0	3.0	2.2
22°	3913.5	2055.2	158.3	19.2	4.4	3.0	3.0	2.2	2.2
23°	4176.9	2348.9	163.5	17.0	3.7	2.2	2.2	1.5	0.7
24°	4574.2	2578.9	165.7	15.5	3.0	2.2	1.5	0.7	0.7
25°	4782.1	2787.6	167.9	14.1	2.2	2.2	1.5	0.7	0.0
26°	4931.5	2952.5	176.1	13.3	2.2	1.5	1.5	0.7	0.0
27°	5048.4	3057.6	180.5	11.8	1.5	1.5	1.5	0.0	0.0
28°	5041.7	3133.8	176.8	10.4	1.5	1.5	0.7	0.0	0.0
29°	5073.6	3185.6	174.6	8.9	0.7	0.7	0.7	0.0	0.0
30°	5015.1	3190.0	166.5	8.1	0.7	0.7	0.7	0.0	0.0
31°	4926.3	3136.0	163.5	7.4	0.0	0.7	0.7	0.0	0.0
32°	4842.7	3111.6	153.9	5.9	0.0	0.7	0.7	0.0	0.0
33°	4699.2	3002.1	144.3	5.2	0.0	0.7	0.0	0.0	0.0
34°	4506.9	2894.8	135.4	4.4	0.0	0.7	0.0	0.0	0.0
35°	4310.8	2806.1	122.8	4.4	0.0	0.7	0.0	0.0	0.0
36°	4148.1	2644.8	113.9	3.7	0.0	0.7	0.0	0.0	0.0
37°	3950.5	2506.4	102.1	3.0	0.0	0.0	0.0	0.0	0.0
38°	3815.9	2311.9	93.2	3.0	0.0	0.0	0.0	0.0	0.0
39°	3634.6	2147.6	82.1	2.2	0.0	0.0	0.0	0.0	0.0
40°	3460.0	1977.5	71.0	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	2959.2	1525.5	48.8	0.7	0.0	0.0	0.0	0.0	0.0
45°	2367.4	1118.6	30.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1879.8	755.3	19.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	1455.2	389.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	967.7	165.0	6.7	0.0	0.0	0.7	0.0	0.0	0.0
55°	438.7	85.8	3.0	0.0	0.7	0.7	0.7	0.0	0.0
57.5°	176.8	37.0	1.5	0.7	0.7	0.7	0.7	0.0	0.0
60°	54.7	10.4	0.7	0.7	1.5	1.5	0.7	0.0	0.0
62.5°	11.1	2.2	0.7	1.5	1.5	1.5	0.7	0.0	0.0
65°	3.7	0.7	0.7	1.5	1.5	1.5	1.5	0.0	0.0
67.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	0.7	0.0
70°	0.0	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.0
72.5°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
75°	0.0	0.7	1.5	1.5	2.2	2.2	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	0.0	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)