

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: P498160

Luminaire Tested: **LDA2B158050R35D010 2LBDLC1MMS-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: P498160
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: LDA2B158050R35D010 2LBDLC1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

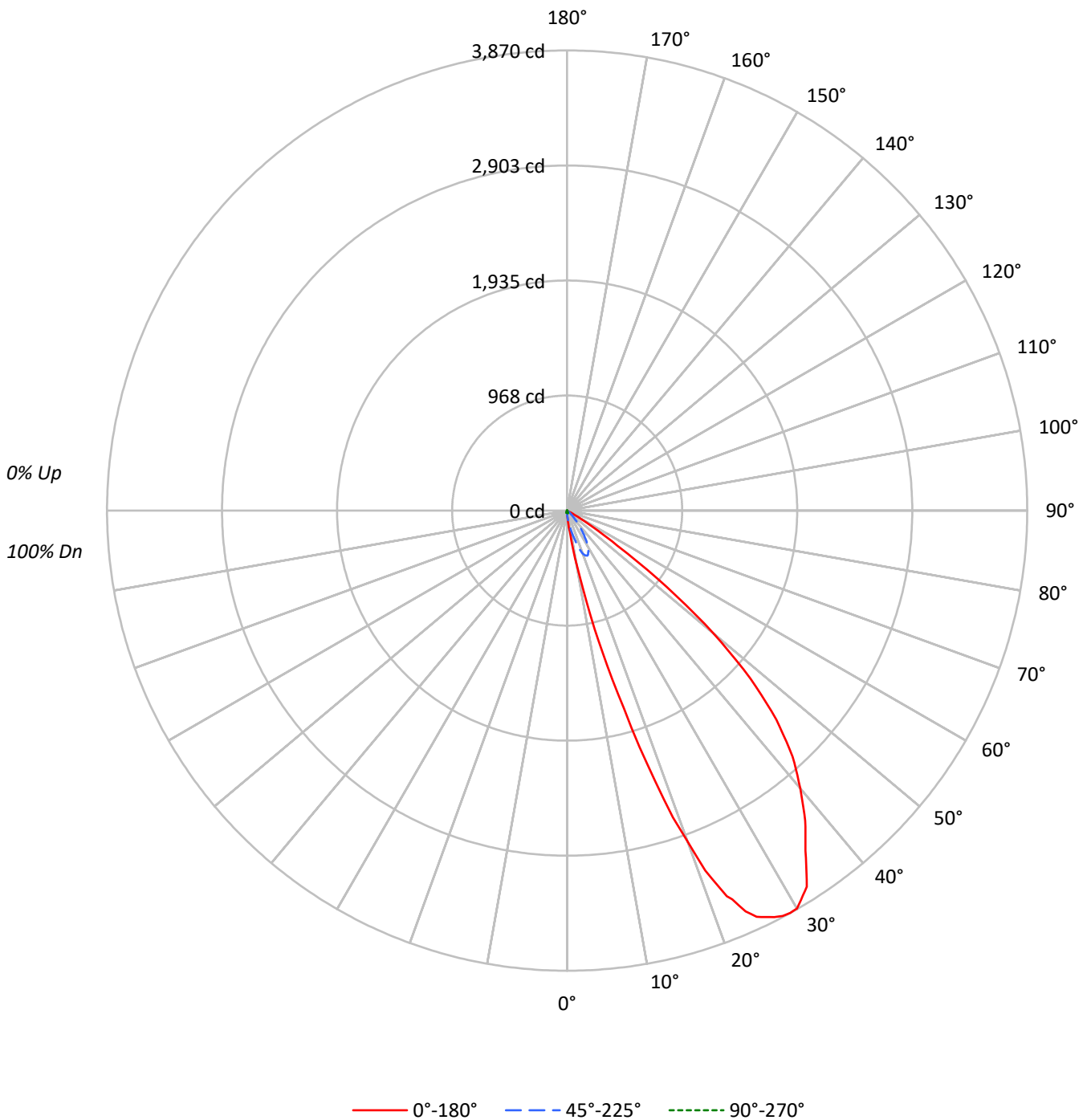
Lumens per Lamp: N/A
Luminaire Lumens: 1044.3 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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





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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°	17416	17416	17416
5°	54576	15303	9459
10°	233052	12875	7014
15°	753073	9398	5618
20°	1552025	5775	3833
25°	2052091	2776	2395
30°	2201149	1253	1253
35°	2103535	903	422
40°	1963930	451	0
45°	1735855	0	0
50°	1232584	537	0
55°	441859	602	0
60°	68183	1480	0
65°	3385	1751	0
70°	0	2164	0
75°	0	2859	1334
80°	0	4262	0
85°	0	8491	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.6
10°-20°	84.5	8.1
20°-30°	282.9	27.1
30°-40°	356.3	34.1
40°-50°	252.1	24.1
50°-60°	58.1	5.6
60°-70°	1.9	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°	373.6	35.8
0°-40°	730.0	69.9
0°-60°	1040.2	99.6
0°-90°	1044.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	110	72	31	22	19	20
15°	1474	260	18	12	11	486
25°	3770	412	5	5	4	1699
35°	3493	241	2	2	1	2186
45°	2488	60	0	0	0	1866
55°	514	3	1	1	0	581
65°	3	1	2	2	0	12
75°	0	2	2	2	1	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°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
1°	44.1	42.6	40.4	36.7	33.1	31.6	31.6	29.4	29.4
2°	52.9	50.7	46.3	39.0	33.1	29.4	27.9	26.5	25.7
3°	68.4	62.5	52.9	41.9	32.3	27.9	27.2	23.5	23.5
4°	85.3	79.4	61.0	44.1	31.6	26.5	23.5	22.0	21.3
5°	110.2	97.0	72.0	46.3	30.9	25.0	22.0	19.8	19.1
6°	142.6	124.2	82.3	48.5	30.1	23.5	20.6	18.4	17.6
7°	179.3	154.3	94.8	50.7	28.7	22.0	19.1	17.6	16.9
8°	257.2	198.4	109.5	52.2	27.9	20.6	18.4	16.2	15.4
9°	344.0	256.5	125.7	54.4	26.5	19.8	16.9	15.4	14.7
10°	465.2	335.9	144.1	55.9	25.7	18.4	15.4	14.7	14.0
11°	585.8	434.4	166.8	56.6	24.3	16.2	15.4	14.7	14.0
12°	784.2	528.4	186.7	56.6	22.8	15.4	14.0	13.2	12.5
13°	1019.4	690.1	215.3	57.3	20.6	14.7	13.2	12.5	12.5
14°	1226.7	834.9	234.5	57.3	19.8	13.2	12.5	12.5	11.8
15°	1474.4	976.0	260.2	56.6	18.4	12.5	12.5	11.8	11.0
16°	1733.8	1187.7	294.7	55.1	16.9	11.0	11.8	10.3	9.6
17°	2077.8	1362.6	321.2	53.7	15.4	10.3	10.3	10.3	9.6
18°	2392.3	1575.1	342.5	52.2	14.0	10.3	9.6	9.6	8.8
19°	2729.7	1745.6	363.8	50.0	12.5	8.8	8.8	8.8	8.1
20°	2956.1	1955.0	387.3	47.8	11.0	8.1	8.8	8.1	7.3
21°	3242.7	2142.5	396.2	45.6	9.6	7.3	7.3	7.3	6.6
22.5°	3511.0	2391.6	410.1	41.2	8.1	5.9	6.6	5.9	5.9
23°	3552.1	2444.5	410.1	39.7	7.3	5.9	6.6	5.9	5.9
24°	3688.8	2589.3	415.3	36.7	5.9	5.1	5.9	5.1	5.1
25°	3769.7	2704.0	411.6	33.8	5.1	5.1	5.1	5.1	4.4
26°	3802.8	2735.6	402.8	31.6	4.4	4.4	5.1	4.4	3.7
27°	3837.3	2807.6	391.7	28.7	3.7	4.4	4.4	4.4	3.7
28°	3861.6	2816.4	380.7	26.5	2.9	3.7	4.4	3.7	3.7
29°	3869.6	2828.2	367.5	23.5	2.2	2.9	3.7	2.9	2.9
30°	3863.8	2826.0	348.4	21.3	2.2	2.9	2.9	2.9	2.2
32.5°	3751.3	2762.8	295.5	15.4	1.5	2.2	2.2	2.2	1.5
35°	3492.6	2617.2	241.1	10.3	1.5	1.5	1.5	1.5	0.7
37.5°	3288.3	2399.7	184.5	5.9	0.7	1.5	1.5	0.7	0.0
40°	3049.4	2084.4	133.0	3.7	0.7	0.7	0.7	0.0	0.0
42.5°	2806.9	1763.2	90.4	1.5	0.0	0.7	0.7	0.0	0.0
45°	2487.9	1350.2	59.5	0.7	0.0	0.7	0.0	0.0	0.0
47.5°	2092.5	980.5	40.4	0.0	0.0	0.7	0.0	0.0	0.0
50°	1605.9	549.0	22.8	0.0	0.7	0.7	0.7	0.0	0.0
52.5°	1058.4	274.1	8.8	0.0	0.7	0.7	0.7	0.0	0.0
55°	513.7	147.0	2.9	0.7	0.7	1.5	0.7	0.0	0.0
57.5°	242.5	57.3	0.7	0.7	1.5	1.5	0.7	0.0	0.0
60°	69.1	11.8	0.7	0.7	1.5	1.5	0.7	0.7	0.0
62.5°	9.6	1.5	0.7	1.5	1.5	1.5	1.5	0.7	0.0
65°	2.9	0.7	0.7	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°
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	0.7	1.5	1.5	1.5	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	1.5	1.5	1.5	0.7	0.7
77.5°	0.0	0.7	1.5	1.5	2.2	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
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)