

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: P498376

Luminaire Tested: **LDA2B159024R35D010 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: P498376
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: LDA2B159024R35D010 2LBDLC1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

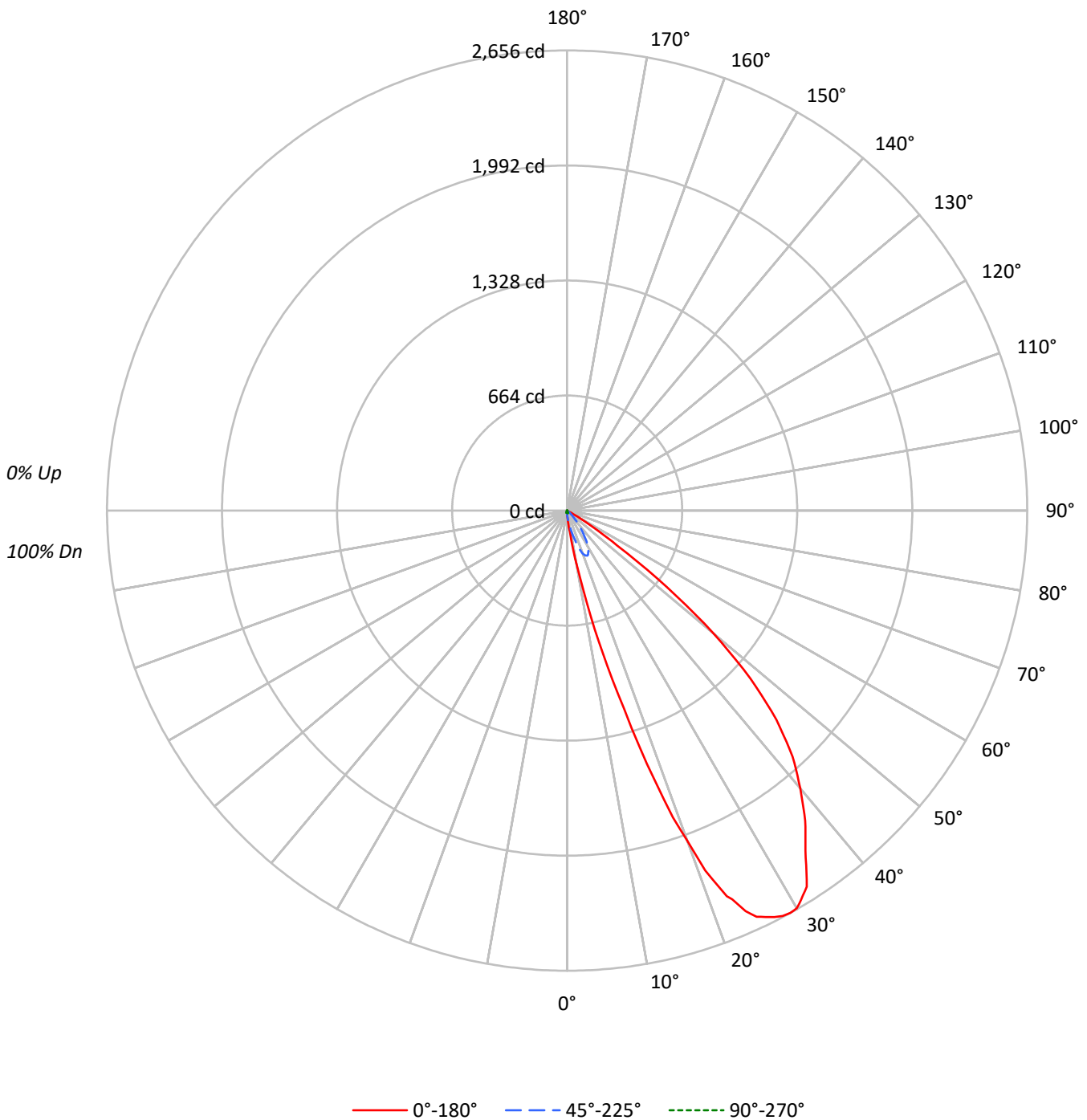
Lumens per Lamp: N/A
Luminaire Lumens: 716.6 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	11939	11939	11939
5°	37490	10499	6488
10°	159961	8867	4809
15°	516793	6436	3882
20°	1065065	3990	2625
25°	1408217	1905	1633
30°	1510520	855	855
35°	1443553	602	301
40°	1347714	322	0
45°	1191216	0	0
50°	845900	384	0
55°	303289	430	0
60°	46771	987	0
65°	2335	1167	0
70°	0	1442	0
75°	0	1906	953
80°	0	2841	0
85°	0	5661	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.6
10°-20°	58.0	8.1
20°-30°	194.1	27.1
30°-40°	244.5	34.1
40°-50°	173.0	24.1
50°-60°	39.9	5.6
60°-70°	1.3	0.2
70°-80°	0.8	0.1
80°-90°	0.7	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°	256.4	35.8
0°-40°	500.9	69.9
0°-60°	713.8	99.6
0°-90°	716.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	76	49	21	15	13	14
15°	1012	178	13	9	8	333
25°	2587	282	4	4	3	1166
35°	2397	165	1	1	0	1500
45°	1707	41	0	0	0	1280
55°	353	2	0	0	0	399
65°	2	0	1	1	0	8
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°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
1°	30.3	29.3	27.7	25.2	22.7	21.7	21.7	20.2	20.2
2°	36.3	34.8	31.8	26.7	22.7	20.2	19.2	18.2	17.7
3°	46.9	42.9	36.3	28.7	22.2	19.2	18.7	16.1	16.1
4°	58.5	54.5	41.9	30.3	21.7	18.2	16.1	15.1	14.6
5°	75.7	66.6	49.4	31.8	21.2	17.1	15.1	13.6	13.1
6°	97.8	85.2	56.5	33.3	20.7	16.1	14.1	12.6	12.1
7°	123.1	105.9	65.1	34.8	19.7	15.1	13.1	12.1	11.6
8°	176.5	136.2	75.2	35.8	19.2	14.1	12.6	11.1	10.6
9°	236.0	176.0	86.2	37.3	18.2	13.6	11.6	10.6	10.1
10°	319.3	230.5	98.9	38.3	17.7	12.6	10.6	10.1	9.6
11°	402.0	298.1	114.5	38.8	16.6	11.1	10.6	10.1	9.6
12°	538.2	362.6	128.1	38.8	15.6	10.6	9.6	9.1	8.6
13°	699.6	473.6	147.8	39.3	14.1	10.1	9.1	8.6	8.6
14°	841.8	573.0	160.9	39.3	13.6	9.1	8.6	8.6	8.1
15°	1011.8	669.8	178.5	38.8	12.6	8.6	8.6	8.1	7.6
16°	1189.8	815.1	202.3	37.8	11.6	7.6	8.1	7.1	6.6
17°	1425.9	935.1	220.4	36.8	10.6	7.1	7.1	7.1	6.6
18°	1641.7	1080.9	235.0	35.8	9.6	7.1	6.6	6.6	6.1
19°	1873.2	1197.9	249.7	34.3	8.6	6.1	6.1	6.1	5.5
20°	2028.6	1341.6	265.8	32.8	7.6	5.5	6.1	5.5	5.0
21°	2225.3	1470.2	271.9	31.3	6.6	5.0	5.0	5.0	4.5
22.5°	2409.4	1641.2	281.4	28.2	5.5	4.0	4.5	4.0	4.0
23°	2437.6	1677.5	281.4	27.2	5.0	4.0	4.5	4.0	4.0
24°	2531.5	1776.9	285.0	25.2	4.0	3.5	4.0	3.5	3.5
25°	2586.9	1855.6	282.4	23.2	3.5	3.5	3.5	3.5	3.0
26°	2609.6	1877.3	276.4	21.7	3.0	3.0	3.5	3.0	2.5
27°	2633.3	1926.7	268.8	19.7	2.5	3.0	3.0	3.0	2.5
28°	2650.0	1932.8	261.3	18.2	2.0	2.5	3.0	2.5	2.5
29°	2655.5	1940.8	252.2	16.1	1.5	2.0	2.5	2.0	2.0
30°	2651.5	1939.3	239.1	14.6	1.5	2.0	2.0	2.0	1.5
32.5°	2574.3	1895.9	202.8	10.6	1.0	1.5	1.5	1.5	1.0
35°	2396.8	1796.1	165.4	7.1	1.0	1.0	1.0	1.0	0.5
37.5°	2256.6	1646.8	126.6	4.0	0.5	1.0	1.0	0.5	0.0
40°	2092.6	1430.4	91.3	2.5	0.5	0.5	0.5	0.0	0.0
42.5°	1926.2	1210.0	62.0	1.0	0.0	0.5	0.5	0.0	0.0
45°	1707.3	926.5	40.9	0.5	0.0	0.5	0.0	0.0	0.0
47.5°	1436.0	672.8	27.7	0.0	0.0	0.5	0.0	0.0	0.0
50°	1102.1	376.8	15.6	0.0	0.5	0.5	0.5	0.0	0.0
52.5°	726.3	188.1	6.1	0.0	0.5	0.5	0.5	0.0	0.0
55°	352.6	100.9	2.0	0.5	0.5	1.0	0.5	0.0	0.0
57.5°	166.4	39.3	0.5	0.5	1.0	1.0	0.5	0.0	0.0
60°	47.4	8.1	0.5	0.5	1.0	1.0	0.5	0.5	0.0
62.5°	6.6	1.0	0.5	1.0	1.0	1.0	1.0	0.5	0.0
65°	2.0	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
70°	0.0	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
72.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
75°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.5
77.5°	0.0	0.5	1.0	1.0	1.5	1.0	1.0	0.5	0.0
80°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
82.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
85°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
87.5°	0.0	0.5	1.0	1.0	1.0	1.0	0.5	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)