

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: P498781

Luminaire Tested: **LDA2B159030R35D010 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: P498781
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: LDA2B159030R35D010 2LBD1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

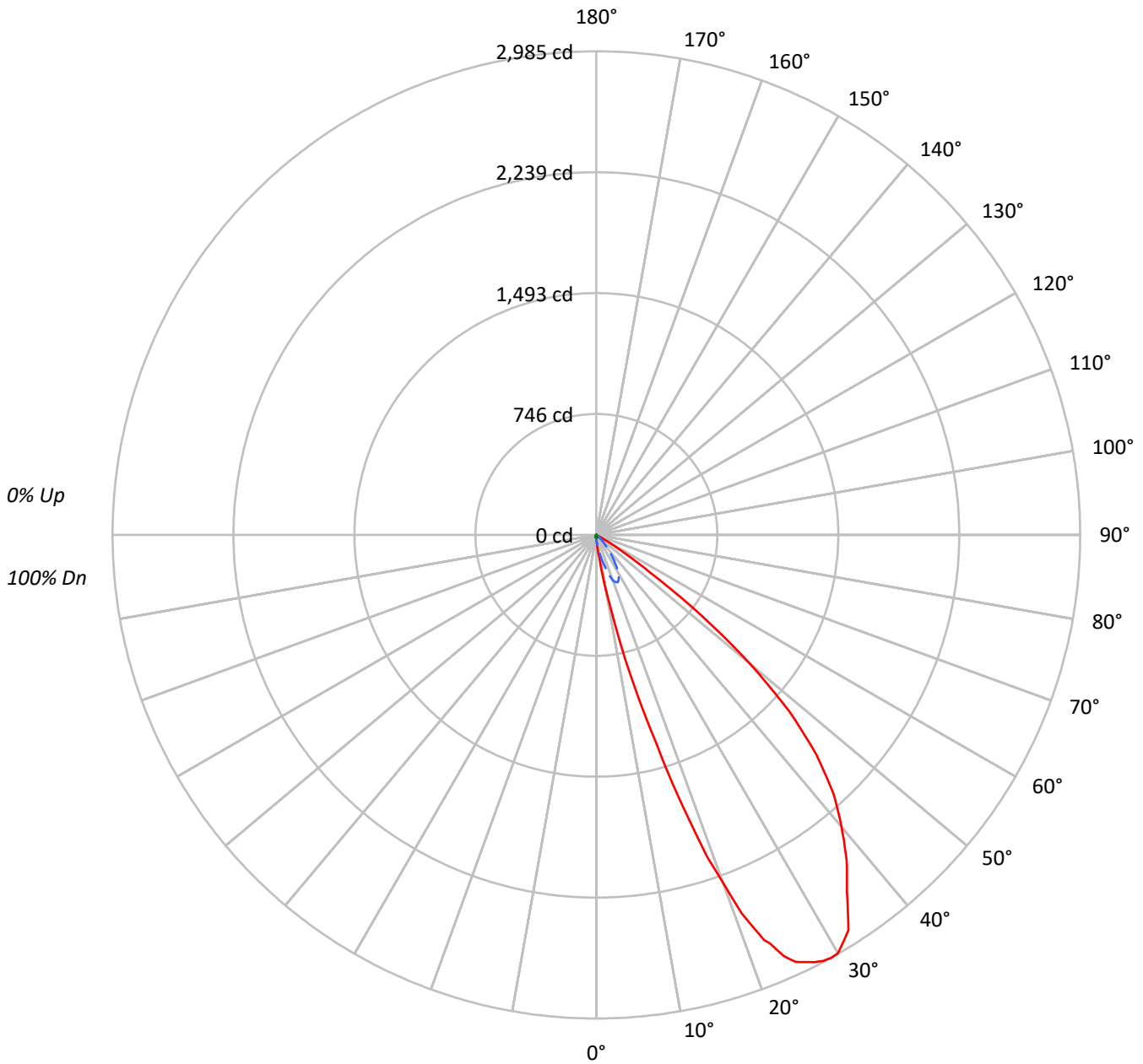
Lumens per Lamp: N/A
Luminaire Lumens: 805.6 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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



— 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	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°	13419	13419	13419
5°	42096	11787	7280
10°	179799	9919	5411
15°	580945	7253	4342
20°	1197266	4463	2993
25°	1583066	2177	1851
30°	1698060	968	968
35°	1622733	663	361
40°	1515035	386	0
45°	1339132	0	0
50°	950899	461	0
55°	340877	516	0
60°	52592	1085	0
65°	2685	1284	0
70°	0	1587	0
75°	0	2097	1144
80°	0	3125	0
85°	0	6227	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.6
10°-20°	65.2	8.1
20°-30°	218.3	27.1
30°-40°	274.9	34.1
40°-50°	194.5	24.1
50°-60°	44.8	5.6
60°-70°	1.5	0.2
70°-80°	0.9	0.1
80°-90°	0.8	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°	288.2	35.8
0°-40°	563.1	69.9
0°-60°	802.4	99.6
0°-90°	805.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	85	56	24	17	15	16
15°	1137	201	14	10	8	375
25°	2908	318	4	4	3	1311
35°	2694	186	1	1	1	1687
45°	1919	46	0	0	0	1439
55°	396	2	1	1	0	448
65°	2	1	1	1	0	9
75°	0	1	1	1	1	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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
1°	34.0	32.9	31.2	28.3	25.5	24.4	24.4	22.7	22.7
2°	40.8	39.1	35.7	30.1	25.5	22.7	21.5	20.4	19.8
3°	52.7	48.2	40.8	32.3	24.9	21.5	21.0	18.1	18.1
4°	65.8	61.2	47.1	34.0	24.4	20.4	18.1	17.0	16.4
5°	85.0	74.8	55.6	35.7	23.8	19.3	17.0	15.3	14.7
6°	110.0	95.8	63.5	37.4	23.2	18.1	15.9	14.2	13.6
7°	138.3	119.1	73.1	39.1	22.1	17.0	14.7	13.6	13.0
8°	198.4	153.1	84.5	40.3	21.5	15.9	14.2	12.5	11.9
9°	265.4	197.9	97.0	42.0	20.4	15.3	13.0	11.9	11.3
10°	358.9	259.1	111.1	43.1	19.8	14.2	11.9	11.3	10.8
11°	451.9	335.1	128.7	43.7	18.7	12.5	11.9	11.3	10.8
12°	605.0	407.7	144.0	43.7	17.6	11.9	10.8	10.2	9.6
13°	786.4	532.4	166.1	44.2	15.9	11.3	10.2	9.6	9.6
14°	946.3	644.1	180.9	44.2	15.3	10.2	9.6	9.6	9.1
15°	1137.4	753.0	200.7	43.7	14.2	9.6	9.6	9.1	8.5
16°	1337.5	916.3	227.4	42.5	13.0	8.5	9.1	7.9	7.4
17°	1602.9	1051.2	247.8	41.4	11.9	7.9	7.9	7.9	7.4
18°	1845.5	1215.1	264.2	40.3	10.8	7.9	7.4	7.4	6.8
19°	2105.8	1346.6	280.7	38.6	9.6	6.8	6.8	6.8	6.2
20°	2280.4	1508.2	298.8	36.9	8.5	6.2	6.8	6.2	5.7
21°	2501.6	1652.8	305.6	35.2	7.4	5.7	5.7	5.7	5.1
22.5°	2708.5	1845.0	316.4	31.8	6.2	4.5	5.1	4.5	4.5
23°	2740.3	1885.8	316.4	30.6	5.7	4.5	5.1	4.5	4.5
24°	2845.7	1997.5	320.3	28.3	4.5	4.0	4.5	4.0	4.0
25°	2908.1	2086.0	317.5	26.1	4.0	4.0	4.0	4.0	3.4
26°	2933.6	2110.3	310.7	24.4	3.4	3.4	4.0	3.4	2.8
27°	2960.2	2165.9	302.2	22.1	2.8	3.4	3.4	3.4	2.8
28°	2979.0	2172.7	293.7	20.4	2.3	2.8	3.4	2.8	2.8
29°	2985.2	2181.8	283.5	18.1	1.7	2.3	2.8	2.3	2.3
30°	2980.7	2180.1	268.8	16.4	1.7	2.3	2.3	2.3	1.7
32.5°	2893.9	2131.3	227.9	11.9	1.1	1.7	1.7	1.7	1.1
35°	2694.3	2019.0	186.0	7.9	1.1	1.1	1.1	1.1	0.6
37.5°	2536.7	1851.2	142.3	4.5	0.6	1.1	1.1	0.6	0.0
40°	2352.4	1608.0	102.6	2.8	0.6	0.6	0.6	0.0	0.0
42.5°	2165.3	1360.2	69.7	1.1	0.0	0.6	0.6	0.0	0.0
45°	1919.3	1041.6	45.9	0.6	0.0	0.6	0.0	0.0	0.0
47.5°	1614.2	756.4	31.2	0.0	0.0	0.6	0.0	0.0	0.0
50°	1238.9	423.5	17.6	0.0	0.6	0.6	0.6	0.0	0.0
52.5°	816.5	211.5	6.8	0.0	0.6	0.6	0.6	0.0	0.0
55°	396.3	113.4	2.3	0.6	0.6	1.1	0.6	0.0	0.0
57.5°	187.1	44.2	0.6	0.6	1.1	1.1	0.6	0.0	0.0
60°	53.3	9.1	0.6	0.6	1.1	1.1	0.6	0.6	0.0
62.5°	7.4	1.1	0.6	1.1	1.1	1.1	1.1	0.6	0.0
65°	2.3	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
70°	0.0	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
72.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
75°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.6
77.5°	0.0	0.6	1.1	1.1	1.7	1.1	1.1	0.6	0.0
80°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
82.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
85°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
87.5°	0.0	0.6	1.1	1.1	1.1	1.1	0.6	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)