

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: P492672

Luminaire Tested: **LDA2B059024R20D010 2LBDL1MMS-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: P492672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B059024R20D010 2LBDL1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

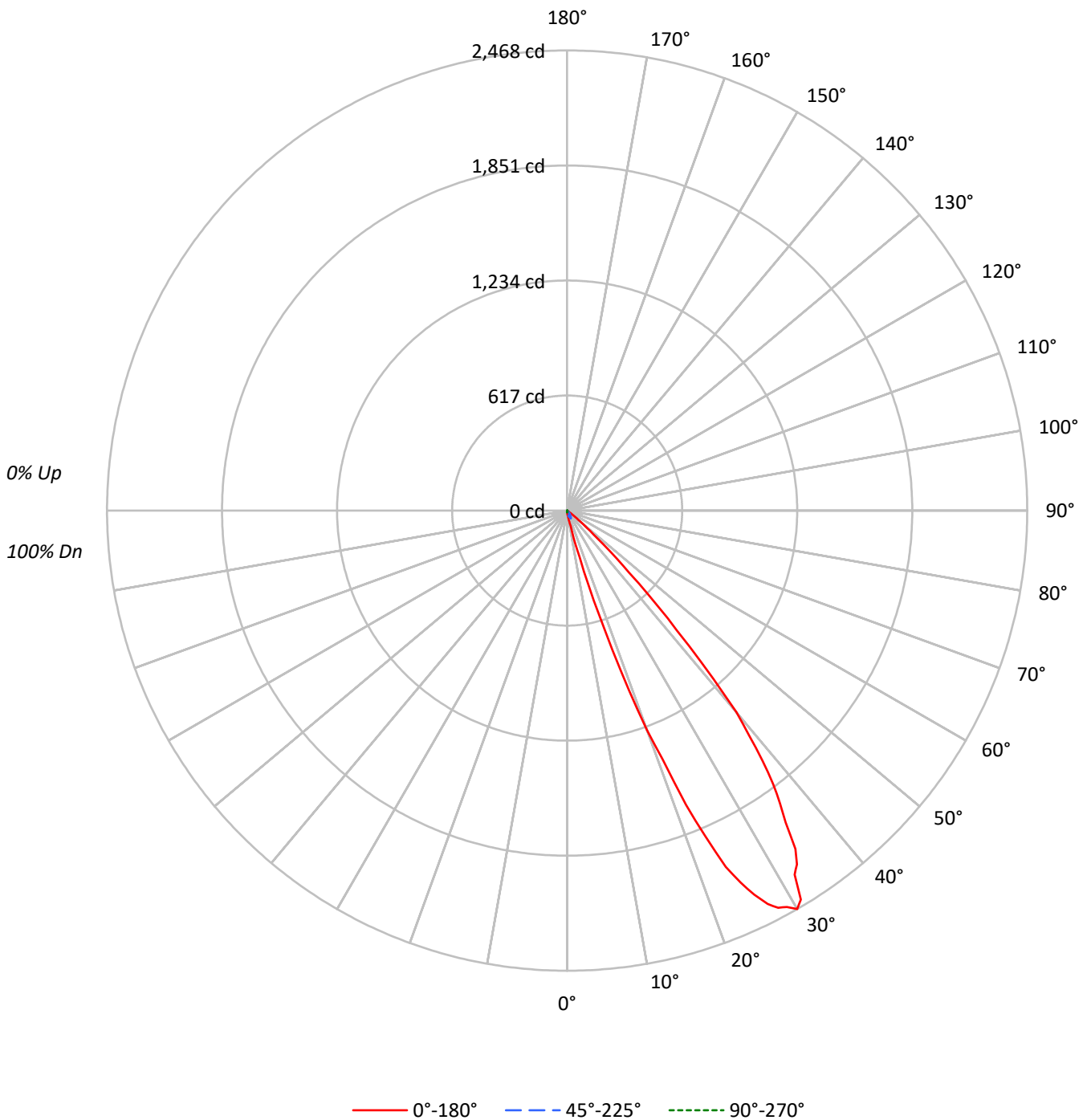
Lumens per Lamp: N/A
Luminaire Lumens: 311.6 lumens
Efficiency: N/A
Efficacy: 44.5 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.57 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P492672

CATALOG NUMBER: LDA2B059024R20D010 2LBDL1MMS-30DEG TILT

Luminous Intensity Polar Plot





TEST NUMBER: P492672

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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4934	4934	4934
5°	9459	4358	3170
10°	22594	3807	2154
15°	131778	3065	868
20°	657331	1890	263
25°	1198527	653	0
30°	1405755	0	0
35°	1230405	0	0
40°	908609	0	0
45°	327509	0	0
50°	68234	0	0
55°	15655	172	0
60°	4934	197	0
65°	1167	584	0
70°	0	721	288
75°	0	953	0
80°	0	1421	0
85°	0	2830	0



TEST NUMBER: P492672

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	17.1	5.5
20°-30°	115.4	37.0
30°-40°	134.8	43.3
40°-50°	39.3	12.6
50°-60°	2.6	0.8
60°-70°	0.5	0.2
70°-80°	0.4	0.1
80°-90°	0.3	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°	133.6	42.9
0°-40°	268.4	86.2
0°-60°	310.4	99.6
0°-90°	311.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	311.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	19	14	9	7	6	3
15°	258	29	6	3	2	135
25°	2202	45	1	0	0	975
35°	2043	24	0	0	0	1255
45°	469	5	0	0	0	433
55°	18	1	0	0	0	23
65°	1	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	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°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2.5°	12.9	12.9	11.5	10.3	9.3	8.8	8.6	8.1	7.9
5°	19.1	16.7	13.9	10.7	8.8	8.1	7.4	6.7	6.4
7.5°	27.9	24.4	16.7	11.0	8.4	7.2	6.4	5.7	5.3
10°	45.1	35.1	20.5	11.0	7.6	6.2	5.3	4.5	4.3
12.5°	83.4	53.7	24.6	10.7	6.9	5.3	4.1	3.6	2.9
15°	258.0	111.3	29.1	10.3	6.0	4.1	3.1	1.9	1.7
17.5°	667.2	259.9	32.5	9.1	4.8	2.9	1.4	1.2	1.2
20°	1252.0	471.3	37.3	7.9	3.6	1.9	1.0	0.7	0.5
21°	1428.2	576.6	39.7	7.4	3.1	1.2	0.7	0.2	0.2
22°	1702.2	691.5	41.6	6.9	2.6	0.7	0.5	0.2	0.0
23°	1897.4	764.9	43.5	6.2	1.9	0.7	0.2	0.0	0.0
24°	2092.6	858.3	44.7	5.7	1.7	0.5	0.2	0.0	0.0
25°	2201.7	936.2	45.1	5.3	1.2	0.2	0.0	0.0	0.0
26°	2291.5	988.2	45.4	4.8	0.7	0.0	0.0	0.0	0.0
27°	2368.5	1048.7	44.9	4.3	0.7	0.0	0.0	0.0	0.0
28°	2412.2	1058.7	44.2	3.8	0.2	0.0	0.0	0.0	0.0
29°	2431.1	1046.5	42.0	3.3	0.2	0.0	0.0	0.0	0.0
30°	2467.6	1035.1	39.9	3.1	0.0	0.0	0.0	0.0	0.0
31°	2433.9	997.1	37.3	2.6	0.0	0.0	0.0	0.0	0.0
32°	2302.1	965.1	34.2	2.1	0.0	0.0	0.0	0.0	0.0
33°	2262.6	899.4	30.8	1.9	0.0	0.0	0.0	0.0	0.0
34°	2188.4	801.7	27.9	1.7	0.0	0.0	0.0	0.0	0.0
35°	2042.9	720.9	24.4	1.4	0.0	0.0	0.0	0.0	0.0
36°	1941.4	628.7	21.3	1.2	0.0	0.0	0.0	0.0	0.0
37°	1835.1	548.2	18.9	1.0	0.0	0.0	0.0	0.0	0.0
38°	1703.0	463.7	16.0	0.7	0.0	0.0	0.0	0.0	0.0
39°	1549.1	383.2	13.6	0.7	0.0	0.0	0.0	0.0	0.0
40°	1410.8	308.9	11.7	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	870.7	176.3	6.9	0.5	0.0	0.0	0.0	0.0	0.0
45°	469.4	107.0	5.0	0.2	0.0	0.0	0.0	0.0	0.0
47.5°	216.2	49.9	3.6	0.2	0.0	0.0	0.0	0.0	0.0
50°	88.9	22.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	32.0	12.4	1.7	0.0	0.0	0.2	0.0	0.0	0.0
55°	18.2	7.2	1.0	0.2	0.2	0.2	0.2	0.0	0.0
57.5°	8.6	4.1	0.2	0.2	0.2	0.2	0.2	0.0	0.0
60°	5.0	2.1	0.2	0.2	0.2	0.5	0.2	0.0	0.0
62.5°	2.4	0.7	0.2	0.5	0.5	0.5	0.5	0.2	0.0
65°	1.0	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.0
67.5°	0.2	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
70°	0.0	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
72.5°	0.0	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
75°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
77.5°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
80°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	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	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
85°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
87.5°	0.0	0.2	0.5	0.5	0.5	0.5	0.2	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)