

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: P493559

Luminaire Tested: **LDA2B059040R30D010 2LBD1MW-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: P493559
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: LDA2B059040R30D010 2LBD1MW-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

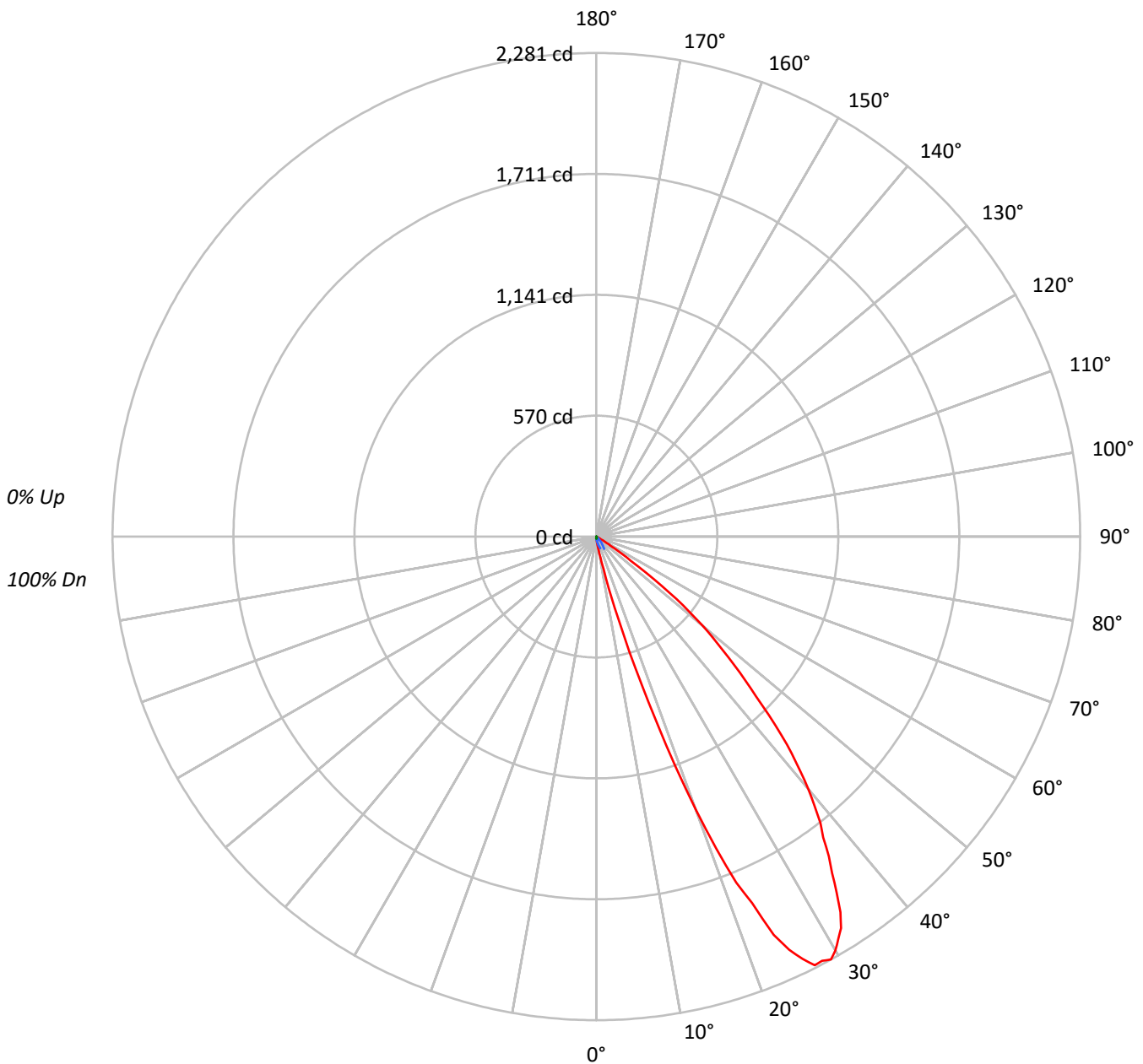
Lumens per Lamp: N/A
Luminaire Lumens: 458.7 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57	56
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5082	5082	5082
5°	11044	4606	3318
10°	33164	4008	2154
15°	201088	2911	1686
20°	720019	1575	683
25°	1170166	544	0
30°	1284241	171	0
35°	1167105	0	0
40°	1001672	0	0
45°	742512	0	0
50°	502044	0	0
55°	169622	258	0
60°	24273	691	0
65°	1985	817	0
70°	0	1010	0
75°	0	1906	0
80°	0	1989	0
85°	0	3962	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.3
10°-20°	23.6	5.2
20°-30°	134.1	29.2
30°-40°	174.8	38.1
40°-50°	102.4	22.3
50°-60°	20.7	4.5
60°-70°	0.8	0.2
70°-80°	0.6	0.1
80°-90°	0.5	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°	159.1	34.7
0°-40°	333.9	72.8
0°-60°	456.9	99.6
0°-90°	458.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	458.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	9	7	7	3
15°	394	45	6	4	3	167
25°	2150	76	1	1	0	951
35°	1938	55	0	0	0	1207
45°	1064	14	0	0	0	831
55°	197	1	0	0	0	230
65°	2	0	1	1	0	5
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°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
2.5°	14.0	13.0	12.3	10.6	9.6	9.0	8.6	8.3	8.0
5°	22.3	20.6	16.0	11.6	9.3	8.0	7.3	6.7	6.7
7.5°	38.2	30.9	21.0	12.3	8.6	7.0	6.3	5.3	5.0
10°	66.2	51.5	28.6	13.0	8.0	6.3	5.0	4.7	4.3
12.5°	155.3	94.1	36.2	13.0	7.0	5.3	4.3	4.0	3.7
15°	393.7	191.9	44.9	12.3	5.7	4.0	3.7	3.3	3.3
17.5°	816.7	394.1	54.5	11.3	4.7	3.0	2.7	2.3	2.3
20°	1371.4	706.3	63.8	9.6	3.0	2.0	1.7	1.3	1.3
21°	1575.6	819.7	68.5	9.0	2.7	1.7	1.3	1.3	1.0
22°	1759.2	923.8	71.2	8.6	2.0	1.3	1.3	1.0	1.0
23°	1877.6	1055.8	73.5	7.6	1.7	1.0	1.0	0.7	0.3
24°	2056.1	1159.3	74.5	7.0	1.3	1.0	0.7	0.3	0.3
25°	2149.6	1253.0	75.5	6.3	1.0	1.0	0.7	0.3	0.0
26°	2216.8	1327.2	79.1	6.0	1.0	0.7	0.7	0.3	0.0
27°	2269.3	1374.4	81.1	5.3	0.7	0.7	0.7	0.0	0.0
28°	2266.3	1408.7	79.5	4.7	0.7	0.7	0.3	0.0	0.0
29°	2280.6	1431.9	78.5	4.0	0.3	0.3	0.3	0.0	0.0
30°	2254.3	1433.9	74.8	3.7	0.3	0.3	0.3	0.0	0.0
31°	2214.4	1409.7	73.5	3.3	0.0	0.3	0.3	0.0	0.0
32°	2176.9	1398.7	69.2	2.7	0.0	0.3	0.3	0.0	0.0
33°	2112.3	1349.5	64.8	2.3	0.0	0.3	0.0	0.0	0.0
34°	2025.9	1301.3	60.9	2.0	0.0	0.3	0.0	0.0	0.0
35°	1937.8	1261.4	55.2	2.0	0.0	0.3	0.0	0.0	0.0
36°	1864.6	1188.9	51.2	1.7	0.0	0.3	0.0	0.0	0.0
37°	1775.8	1126.7	45.9	1.3	0.0	0.0	0.0	0.0	0.0
38°	1715.3	1039.2	41.9	1.3	0.0	0.0	0.0	0.0	0.0
39°	1633.8	965.4	36.9	1.0	0.0	0.0	0.0	0.0	0.0
40°	1555.3	888.9	31.9	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1330.2	685.7	21.9	0.3	0.0	0.0	0.0	0.0	0.0
45°	1064.2	502.8	13.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	845.0	339.5	8.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	654.1	174.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	435.0	74.2	3.0	0.0	0.0	0.3	0.0	0.0	0.0
55°	197.2	38.6	1.3	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	79.5	16.6	0.7	0.3	0.3	0.3	0.3	0.0	0.0
60°	24.6	4.7	0.3	0.3	0.7	0.7	0.3	0.0	0.0
62.5°	5.0	1.0	0.3	0.7	0.7	0.7	0.3	0.0	0.0
65°	1.7	0.3	0.3	0.7	0.7	0.7	0.7	0.0	0.0
67.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.0
70°	0.0	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.0
72.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
75°	0.0	0.3	0.7	0.7	1.0	1.0	0.7	0.3	0.0
77.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
80°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	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	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
85°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.0	0.0
87.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.3	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)