

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: P492542

Luminaire Tested: **LDA2B058050R35D010 2LBDLC1MB-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: P492542
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: LDA2B058050R35D010 2LBDLC1MB-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

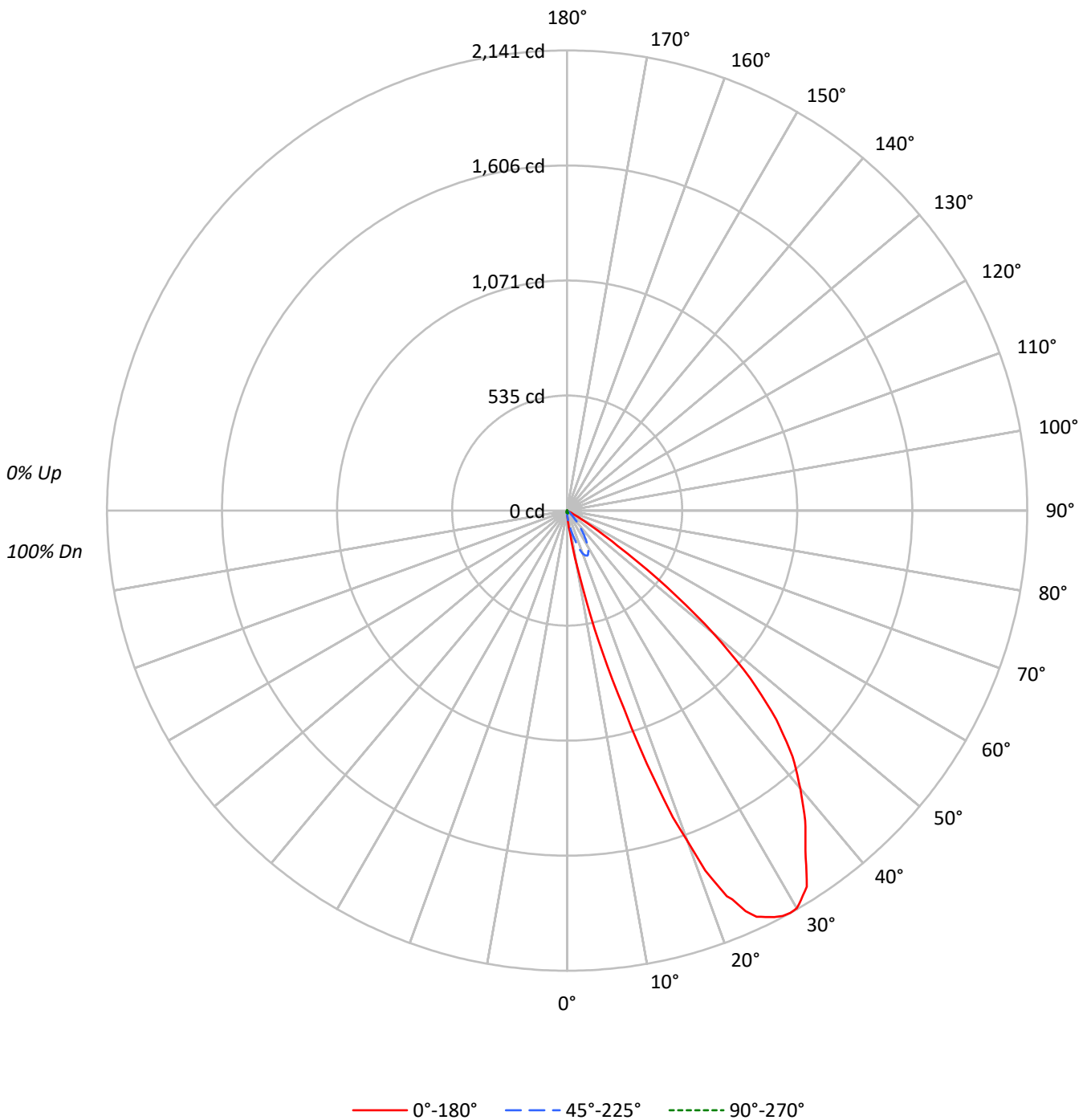
Lumens per Lamp: N/A
Luminaire Lumens: 577.6 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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	47	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°	9621	9621	9621
5°	30210	8469	5250
10°	128950	7114	3857
15°	416581	5210	3116
20°	858573	3203	2153
25°	1135218	1524	1306
30°	1217645	684	684
35°	1163672	482	241
40°	1086428	258	0
45°	960271	0	0
50°	681878	307	0
55°	244455	344	0
60°	37693	789	0
65°	1868	934	0
70°	0	1154	0
75°	0	1525	762
80°	0	2273	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.6
10°-20°	46.8	8.1
20°-30°	156.5	27.1
30°-40°	197.1	34.1
40°-50°	139.4	24.1
50°-60°	32.2	5.6
60°-70°	1.0	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°	206.7	35.8
0°-40°	403.8	69.9
0°-60°	575.4	99.6
0°-90°	577.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	577.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	61	40	17	12	11	11
15°	816	144	10	7	6	269
25°	2085	228	3	3	2	940
35°	1932	133	1	1	0	1210
45°	1376	33	0	0	0	1032
55°	284	2	0	0	0	322
65°	2	0	1	1	0	6
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°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
1°	24.4	23.6	22.4	20.3	18.3	17.5	17.5	16.3	16.3
2°	29.3	28.1	25.6	21.5	18.3	16.3	15.5	14.6	14.2
3°	37.8	34.6	29.3	23.2	17.9	15.5	15.0	13.0	13.0
4°	47.2	43.9	33.7	24.4	17.5	14.6	13.0	12.2	11.8
5°	61.0	53.7	39.8	25.6	17.1	13.8	12.2	11.0	10.6
6°	78.9	68.7	45.5	26.8	16.7	13.0	11.4	10.2	9.8
7°	99.2	85.4	52.4	28.1	15.9	12.2	10.6	9.8	9.4
8°	142.3	109.8	60.6	28.9	15.5	11.4	10.2	8.9	8.5
9°	190.3	141.9	69.5	30.1	14.6	11.0	9.4	8.5	8.1
10°	257.4	185.8	79.7	30.9	14.2	10.2	8.5	8.1	7.7
11°	324.0	240.3	92.3	31.3	13.4	8.9	8.5	8.1	7.7
12°	433.8	292.3	103.3	31.3	12.6	8.5	7.7	7.3	6.9
13°	563.9	381.8	119.1	31.7	11.4	8.1	7.3	6.9	6.9
14°	678.6	461.9	129.7	31.7	11.0	7.3	6.9	6.9	6.5
15°	815.6	539.9	143.9	31.3	10.2	6.9	6.9	6.5	6.1
16°	959.1	657.0	163.0	30.5	9.4	6.1	6.5	5.7	5.3
17°	1149.4	753.8	177.7	29.7	8.5	5.7	5.7	5.7	5.3
18°	1323.4	871.3	189.5	28.9	7.7	5.7	5.3	5.3	4.9
19°	1510.0	965.6	201.3	27.6	6.9	4.9	4.9	4.9	4.5
20°	1635.3	1081.5	214.3	26.4	6.1	4.5	4.9	4.5	4.1
21°	1793.8	1185.2	219.1	25.2	5.3	4.1	4.1	4.1	3.7
22.5°	1942.2	1323.0	226.9	22.8	4.5	3.3	3.7	3.3	3.3
23°	1965.0	1352.3	226.9	22.0	4.1	3.3	3.7	3.3	3.3
24°	2040.6	1432.4	229.7	20.3	3.3	2.8	3.3	2.8	2.8
25°	2085.4	1495.8	227.7	18.7	2.8	2.8	2.8	2.8	2.4
26°	2103.7	1513.3	222.8	17.5	2.4	2.4	2.8	2.4	2.0
27°	2122.8	1553.1	216.7	15.9	2.0	2.4	2.4	2.4	2.0
28°	2136.2	1558.0	210.6	14.6	1.6	2.0	2.4	2.0	2.0
29°	2140.7	1564.5	203.3	13.0	1.2	1.6	2.0	1.6	1.6
30°	2137.4	1563.3	192.7	11.8	1.2	1.6	1.6	1.6	1.2
32.5°	2075.2	1528.3	163.4	8.5	0.8	1.2	1.2	1.2	0.8
35°	1932.1	1447.8	133.4	5.7	0.8	0.8	0.8	0.8	0.4
37.5°	1819.0	1327.5	102.1	3.3	0.4	0.8	0.8	0.4	0.0
40°	1686.9	1153.1	73.6	2.0	0.4	0.4	0.4	0.0	0.0
42.5°	1552.7	975.4	50.0	0.8	0.0	0.4	0.4	0.0	0.0
45°	1376.3	746.9	32.9	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1157.5	542.4	22.4	0.0	0.0	0.4	0.0	0.0	0.0
50°	888.4	303.7	12.6	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	585.5	151.7	4.9	0.0	0.4	0.4	0.4	0.0	0.0
55°	284.2	81.3	1.6	0.4	0.4	0.8	0.4	0.0	0.0
57.5°	134.2	31.7	0.4	0.4	0.8	0.8	0.4	0.0	0.0
60°	38.2	6.5	0.4	0.4	0.8	0.8	0.4	0.4	0.0
62.5°	5.3	0.8	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.6	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4
77.5°	0.0	0.4	0.8	0.8	1.2	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
82.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.4	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)