

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: P494245

Luminaire Tested: **LDA2B059730R35D010 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: P494245
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: LDA2B059730R35D010 2LBD1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

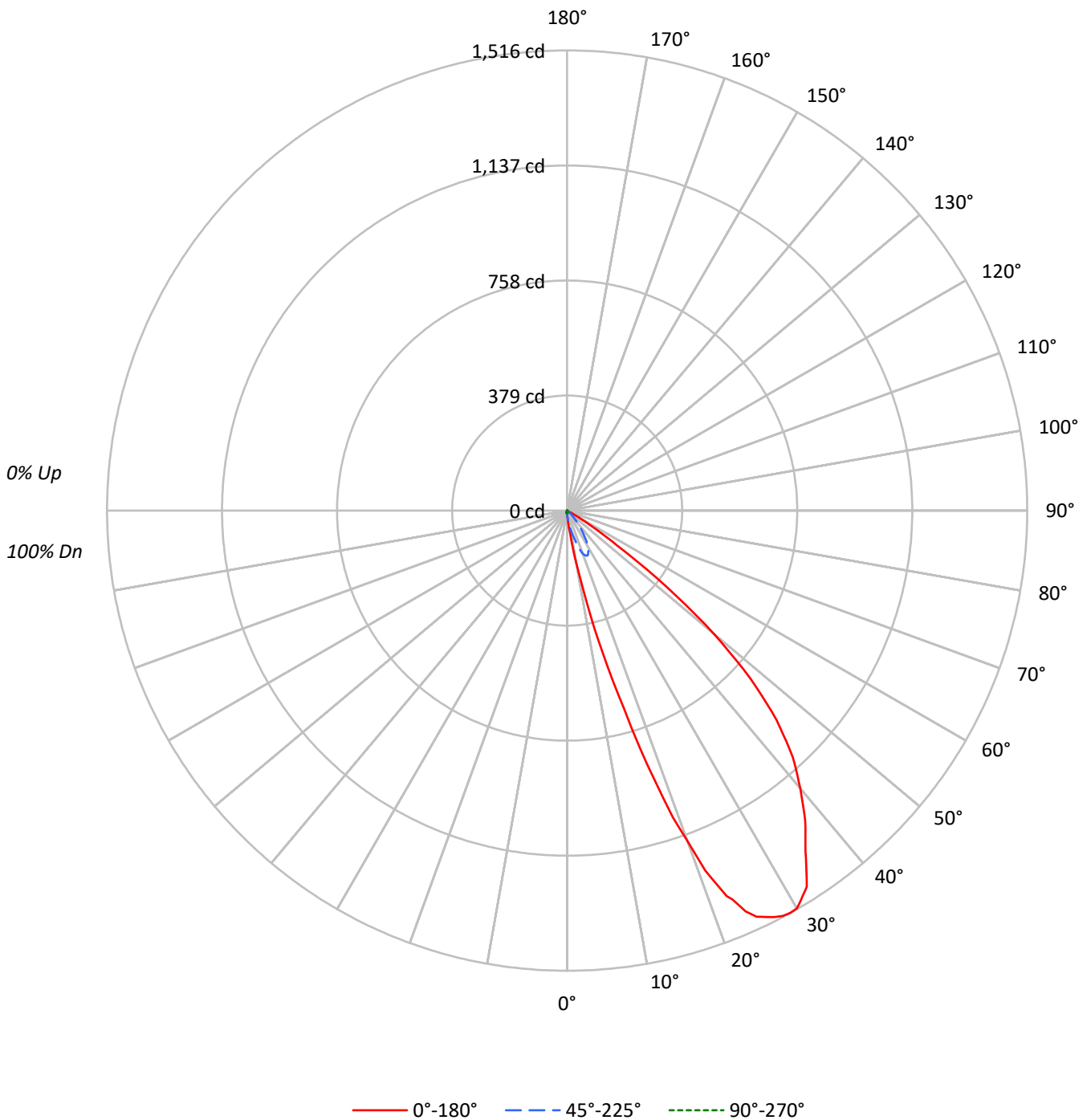
Lumens per Lamp: N/A
Luminaire Lumens: 409.1 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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





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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	75	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	83	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°	6808	6808	6808
5°	21395	5992	3714
10°	91277	5060	2755
15°	294967	3678	2196
20°	607926	2258	1523
25°	803809	1089	925
30°	862218	513	513
35°	823984	361	181
40°	769303	193	0
45°	679927	0	0
50°	482856	230	0
55°	173062	258	0
60°	26740	592	0
65°	1401	700	0
70°	0	865	0
75°	0	1144	572
80°	0	1705	0
85°	0	3396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.6
10°-20°	33.1	8.1
20°-30°	110.8	27.1
30°-40°	139.6	34.1
40°-50°	98.7	24.1
50°-60°	22.8	5.6
60°-70°	0.8	0.2
70°-80°	0.5	0.1
80°-90°	0.4	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°	146.4	35.8
0°-40°	285.9	69.9
0°-60°	407.5	99.6
0°-90°	409.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	43	28	12	9	8	8
15°	578	102	7	5	4	190
25°	1477	161	2	2	2	666
35°	1368	94	1	1	0	856
45°	974	23	0	0	0	731
55°	201	1	0	0	0	228
65°	1	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°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
1°	17.3	16.7	15.8	14.4	13.0	12.4	12.4	11.5	11.5
2°	20.7	19.9	18.1	15.3	13.0	11.5	10.9	10.4	10.1
3°	26.8	24.5	20.7	16.4	12.7	10.9	10.7	9.2	9.2
4°	33.4	31.1	23.9	17.3	12.4	10.4	9.2	8.6	8.3
5°	43.2	38.0	28.2	18.1	12.1	9.8	8.6	7.8	7.5
6°	55.9	48.7	32.2	19.0	11.8	9.2	8.1	7.2	6.9
7°	70.2	60.5	37.1	19.9	11.2	8.6	7.5	6.9	6.6
8°	100.8	77.7	42.9	20.4	10.9	8.1	7.2	6.3	6.0
9°	134.7	100.5	49.2	21.3	10.4	7.8	6.6	6.0	5.8
10°	182.2	131.6	56.4	21.9	10.1	7.2	6.0	5.8	5.5
11°	229.5	170.1	65.4	22.2	9.5	6.3	6.0	5.8	5.5
12°	307.2	207.0	73.1	22.2	8.9	6.0	5.5	5.2	4.9
13°	399.3	270.3	84.4	22.5	8.1	5.8	5.2	4.9	4.9
14°	480.5	327.1	91.8	22.5	7.8	5.2	4.9	4.9	4.6
15°	577.5	382.3	101.9	22.2	7.2	4.9	4.9	4.6	4.3
16°	679.1	465.2	115.4	21.6	6.6	4.3	4.6	4.0	3.7
17°	813.9	533.8	125.8	21.0	6.0	4.0	4.0	4.0	3.7
18°	937.1	617.0	134.2	20.4	5.5	4.0	3.7	3.7	3.5
19°	1069.3	683.8	142.5	19.6	4.9	3.5	3.5	3.5	3.2
20°	1157.9	765.8	151.7	18.7	4.3	3.2	3.5	3.2	2.9
21°	1270.2	839.2	155.2	17.8	3.7	2.9	2.9	2.9	2.6
22.5°	1375.3	936.8	160.6	16.1	3.2	2.3	2.6	2.3	2.3
23°	1391.4	957.5	160.6	15.5	2.9	2.3	2.6	2.3	2.3
24°	1445.0	1014.3	162.7	14.4	2.3	2.0	2.3	2.0	2.0
25°	1476.6	1059.2	161.2	13.2	2.0	2.0	2.0	2.0	1.7
26°	1489.6	1071.6	157.8	12.4	1.7	1.7	2.0	1.7	1.4
27°	1503.1	1099.8	153.4	11.2	1.4	1.7	1.7	1.7	1.4
28°	1512.6	1103.2	149.1	10.4	1.2	1.4	1.7	1.4	1.4
29°	1515.8	1107.8	143.9	9.2	0.9	1.2	1.4	1.2	1.2
30°	1513.5	1107.0	136.5	8.3	0.9	1.2	1.2	1.2	0.9
32.5°	1469.4	1082.2	115.7	6.0	0.6	0.9	0.9	0.9	0.6
35°	1368.1	1025.2	94.4	4.0	0.6	0.6	0.6	0.6	0.3
37.5°	1288.1	940.0	72.3	2.3	0.3	0.6	0.6	0.3	0.0
40°	1194.5	816.5	52.1	1.4	0.3	0.3	0.3	0.0	0.0
42.5°	1099.5	690.7	35.4	0.6	0.0	0.3	0.3	0.0	0.0
45°	974.5	528.9	23.3	0.3	0.0	0.3	0.0	0.0	0.0
47.5°	819.6	384.1	15.8	0.0	0.0	0.3	0.0	0.0	0.0
50°	629.1	215.1	8.9	0.0	0.3	0.3	0.3	0.0	0.0
52.5°	414.6	107.4	3.5	0.0	0.3	0.3	0.3	0.0	0.0
55°	201.2	57.6	1.2	0.3	0.3	0.6	0.3	0.0	0.0
57.5°	95.0	22.5	0.3	0.3	0.6	0.6	0.3	0.0	0.0
60°	27.1	4.6	0.3	0.3	0.6	0.6	0.3	0.3	0.0
62.5°	3.7	0.6	0.3	0.6	0.6	0.6	0.6	0.3	0.0
65°	1.2	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0
70°	0.0	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0
72.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
75°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.3
77.5°	0.0	0.3	0.6	0.6	0.9	0.6	0.6	0.3	0.0
80°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
82.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
85°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
87.5°	0.0	0.3	0.6	0.6	0.6	0.6	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)