

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: P495541

Luminaire Tested: **LDA2B109024R35D010 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: P495541
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: LDA2B109024R35D010 2LBD1MMS-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

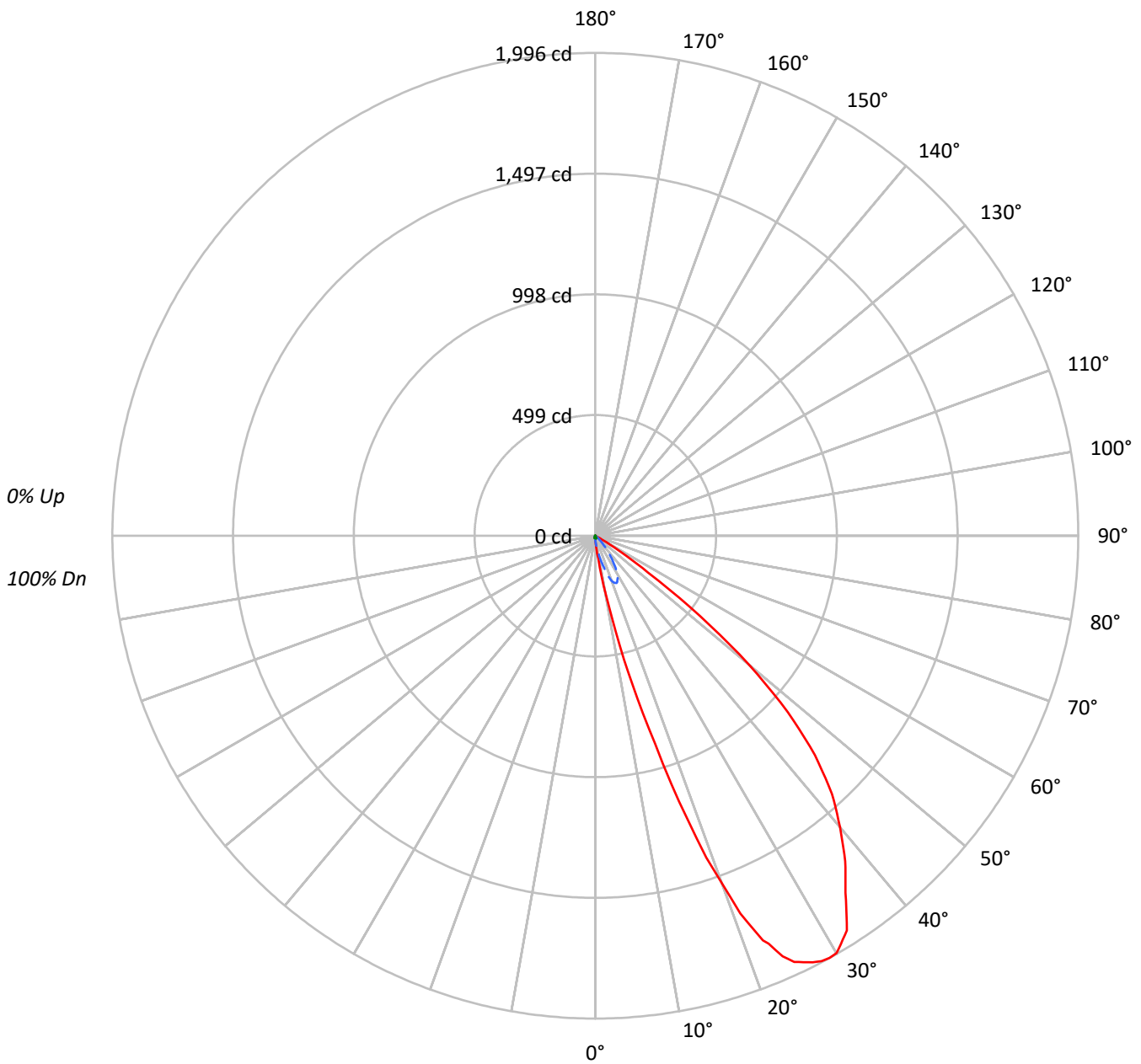
Lumens per Lamp: N/A
Luminaire Lumens: 538.7 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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	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				
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	75	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	58					56				
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51					49				
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46					44				
8	67	54	47	42	65	54	46	41	53	46	41	51	45	41	50	45	41					39				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36					35				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33					31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8979	8979	8979
5°	28180	7874	4903
10°	120183	6663	3607
15°	388386	4852	2911
20°	800453	2993	1995
25°	1058353	1470	1252
30°	1135212	627	627
35°	1084893	482	241
40°	1012879	258	0
45°	895243	0	0
50°	635672	307	0
55°	227940	344	0
60°	35127	789	0
65°	1751	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°	3.2	0.6
10°-20°	43.6	8.1
20°-30°	145.9	27.1
30°-40°	183.8	34.1
40°-50°	130.0	24.1
50°-60°	30.0	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°	192.7	35.8
0°-40°	376.5	69.9
0°-60°	536.5	99.6
0°-90°	538.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	538.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	57	37	16	11	10	11
15°	760	134	10	6	6	251
25°	1944	212	3	3	2	876
35°	1801	124	1	1	0	1128
45°	1283	31	0	0	0	962
55°	265	2	0	0	0	300
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°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
1°	22.7	22.0	20.8	19.0	17.1	16.3	16.3	15.2	15.2
2°	27.3	26.2	23.9	20.1	17.1	15.2	14.4	13.6	13.3
3°	35.3	32.2	27.3	21.6	16.7	14.4	14.0	12.1	12.1
4°	44.0	40.9	31.5	22.7	16.3	13.6	12.1	11.4	11.0
5°	56.9	50.0	37.1	23.9	15.9	12.9	11.4	10.2	9.9
6°	73.5	64.1	42.5	25.0	15.5	12.1	10.6	9.5	9.1
7°	92.5	79.6	48.9	26.2	14.8	11.4	9.9	9.1	8.7
8°	132.7	102.3	56.5	26.9	14.4	10.6	9.5	8.3	8.0
9°	177.4	132.3	64.8	28.1	13.6	10.2	8.7	8.0	7.6
10°	239.9	173.2	74.3	28.8	13.3	9.5	8.0	7.6	7.2
11°	302.1	224.0	86.0	29.2	12.5	8.3	8.0	7.6	7.2
12°	404.5	272.5	96.3	29.2	11.8	8.0	7.2	6.8	6.4
13°	525.8	355.9	111.1	29.6	10.6	7.6	6.8	6.4	6.4
14°	632.6	430.6	120.9	29.6	10.2	6.8	6.4	6.4	6.1
15°	760.4	503.4	134.2	29.2	9.5	6.4	6.4	6.1	5.7
16°	894.2	612.6	152.0	28.4	8.7	5.7	6.1	5.3	4.9
17°	1071.6	702.8	165.6	27.7	8.0	5.3	5.3	5.3	4.9
18°	1233.8	812.3	176.6	26.9	7.2	5.3	4.9	4.9	4.5
19°	1407.8	900.3	187.6	25.8	6.4	4.5	4.5	4.5	4.2
20°	1524.6	1008.3	199.8	24.6	5.7	4.2	4.5	4.2	3.8
21°	1672.4	1105.0	204.3	23.5	4.9	3.8	3.8	3.8	3.4
22.5°	1810.8	1233.5	211.5	21.2	4.2	3.0	3.4	3.0	3.0
23°	1832.0	1260.8	211.5	20.5	3.8	3.0	3.4	3.0	3.0
24°	1902.5	1335.4	214.2	19.0	3.0	2.7	3.0	2.7	2.7
25°	1944.2	1394.6	212.3	17.4	2.7	2.7	2.7	2.7	2.3
26°	1961.3	1410.9	207.7	16.3	2.3	2.3	2.7	2.3	1.9
27°	1979.1	1448.0	202.0	14.8	1.9	2.3	2.3	2.3	1.9
28°	1991.6	1452.6	196.4	13.6	1.5	1.9	2.3	1.9	1.9
29°	1995.7	1458.6	189.5	12.1	1.1	1.5	1.9	1.5	1.5
30°	1992.7	1457.5	179.7	11.0	1.1	1.5	1.5	1.5	1.1
32.5°	1934.7	1424.9	152.4	8.0	0.8	1.1	1.1	1.1	0.8
35°	1801.3	1349.8	124.3	5.3	0.8	0.8	0.8	0.8	0.4
37.5°	1695.9	1237.6	95.1	3.0	0.4	0.8	0.8	0.4	0.0
40°	1572.7	1075.0	68.6	1.9	0.4	0.4	0.4	0.0	0.0
42.5°	1447.6	909.4	46.6	0.8	0.0	0.4	0.4	0.0	0.0
45°	1283.1	696.3	30.7	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1079.2	505.7	20.8	0.0	0.0	0.4	0.0	0.0	0.0
50°	828.2	283.2	11.8	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	545.8	141.4	4.5	0.0	0.4	0.4	0.4	0.0	0.0
55°	265.0	75.8	1.5	0.4	0.4	0.8	0.4	0.0	0.0
57.5°	125.1	29.6	0.4	0.4	0.8	0.8	0.4	0.0	0.0
60°	35.6	6.1	0.4	0.4	0.8	0.8	0.4	0.4	0.0
62.5°	4.9	0.8	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.5	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	1.1	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)