

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: P500077

Luminaire Tested: **LDA2B208027R35D010 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: P500077
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: LDA2B208027R35D010 2LBD1MMS-30DEG TILT
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

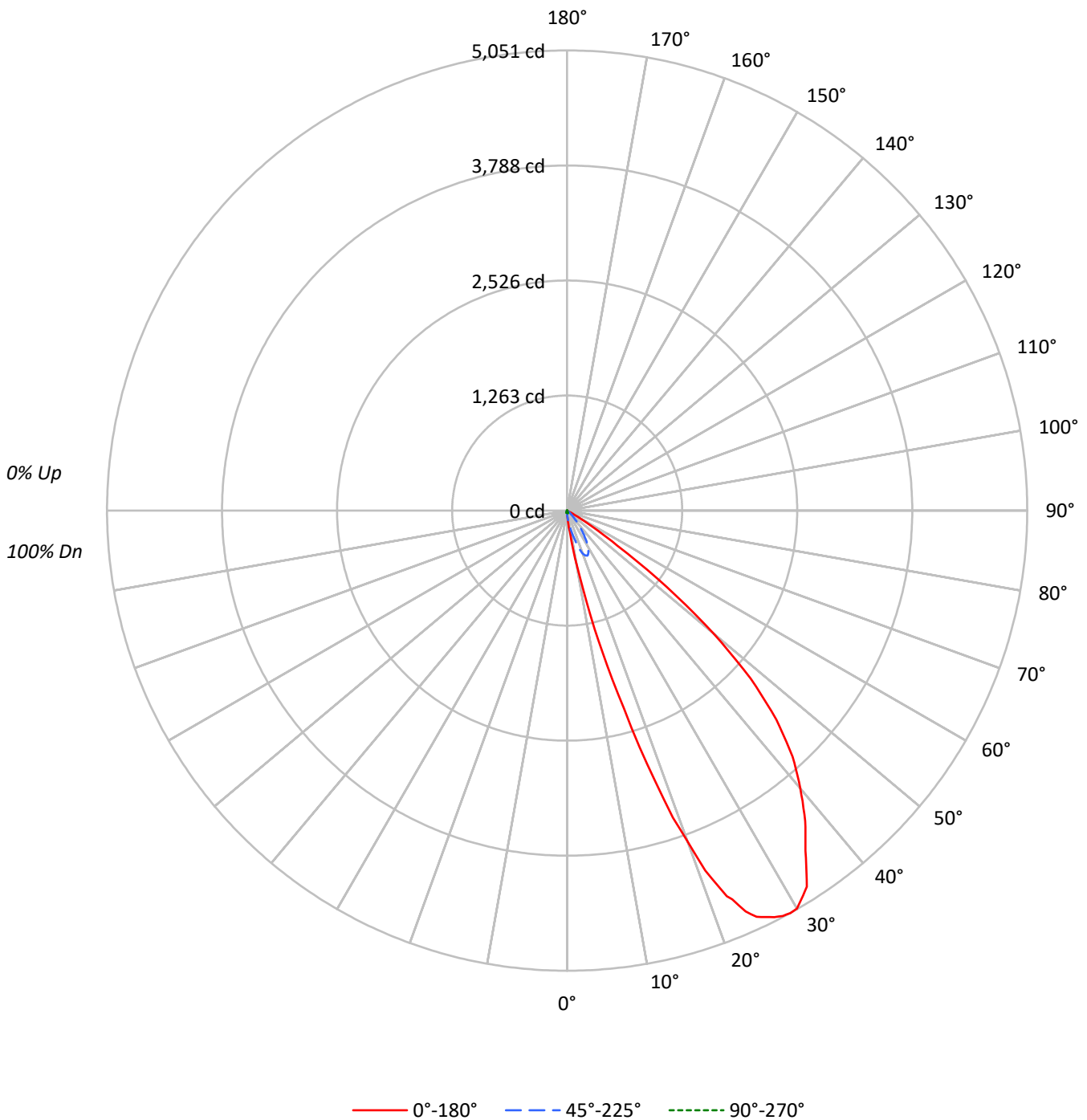
Lumens per Lamp: N/A
Luminaire Lumens: 1363.2 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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	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	84	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	47	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°	22744	22744	22744
5°	71266	19958	12332
10°	304241	16833	9118
15°	983020	12258	7355
20°	2025965	7560	5040
25°	2678763	3647	3157
30°	2873321	1652	1652
35°	2745931	1144	602
40°	2563722	644	0
45°	2265982	0	0
50°	1608983	768	0
55°	576817	860	0
60°	89002	1875	0
65°	4436	2218	0
70°	0	2741	0
75°	0	3622	1906
80°	0	5398	0
85°	0	10755	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.6
10°-20°	110.3	8.1
20°-30°	369.3	27.1
30°-40°	465.2	34.1
40°-50°	329.1	24.1
50°-60°	75.9	5.6
60°-70°	2.5	0.2
70°-80°	1.6	0.1
80°-90°	1.3	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°	487.7	35.8
0°-40°	952.9	69.9
0°-60°	1357.9	99.6
0°-90°	1363.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1363.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	144	94	40	29	25	27
15°	1925	340	24	16	14	634
25°	4921	537	7	7	6	2218
35°	4559	315	2	2	1	2854
45°	3248	78	0	0	0	2436
55°	671	4	1	1	0	759
65°	4	1	2	2	0	15
75°	0	2	2	2	1	0
85°	0	2	2	2	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°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
1°	57.6	55.6	52.8	48.0	43.2	41.3	41.3	38.4	38.4
2°	69.1	66.2	60.4	50.8	43.2	38.4	36.5	34.5	33.6
3°	89.2	81.6	69.1	54.7	42.2	36.5	35.5	30.7	30.7
4°	111.3	103.6	79.6	57.6	41.3	34.5	30.7	28.8	27.8
5°	143.9	126.6	94.0	60.4	40.3	32.6	28.8	25.9	24.9
6°	186.1	162.1	107.5	63.3	39.3	30.7	26.9	24.0	23.0
7°	234.1	201.5	123.8	66.2	37.4	28.8	24.9	23.0	22.1
8°	335.8	259.0	143.0	68.1	36.5	26.9	24.0	21.1	20.1
9°	449.0	334.8	164.1	71.0	34.5	25.9	22.1	20.1	19.2
10°	607.3	438.5	188.0	72.9	33.6	24.0	20.1	19.2	18.2
11°	764.7	567.0	217.8	73.9	31.7	21.1	20.1	19.2	18.2
12°	1023.7	689.8	243.7	73.9	29.7	20.1	18.2	17.3	16.3
13°	1330.7	900.9	281.1	74.8	26.9	19.2	17.3	16.3	16.3
14°	1601.3	1089.9	306.1	74.8	25.9	17.3	16.3	16.3	15.4
15°	1924.6	1274.1	339.6	73.9	24.0	16.3	16.3	15.4	14.4
16°	2263.3	1550.4	384.7	72.0	22.1	14.4	15.4	13.4	12.5
17°	2712.3	1778.8	419.3	70.0	20.1	13.4	13.4	13.4	12.5
18°	3122.9	2056.1	447.1	68.1	18.2	13.4	12.5	12.5	11.5
19°	3563.3	2278.6	474.9	65.2	16.3	11.5	11.5	11.5	10.6
20°	3858.8	2552.1	505.6	62.4	14.4	10.6	11.5	10.6	9.6
21°	4233.0	2796.7	517.1	59.5	12.5	9.6	9.6	9.6	8.6
22.5°	4583.2	3122.0	535.4	53.7	10.6	7.7	8.6	7.7	7.7
23°	4636.9	3191.1	535.4	51.8	9.6	7.7	8.6	7.7	7.7
24°	4815.4	3380.1	542.1	48.0	7.7	6.7	7.7	6.7	6.7
25°	4920.9	3529.7	537.3	44.1	6.7	6.7	6.7	6.7	5.8
26°	4964.1	3571.0	525.8	41.3	5.8	5.8	6.7	5.8	4.8
27°	5009.2	3665.0	511.4	37.4	4.8	5.8	5.8	5.8	4.8
28°	5040.8	3676.5	497.0	34.5	3.8	4.8	5.8	4.8	4.8
29°	5051.4	3691.9	479.7	30.7	2.9	3.8	4.8	3.8	3.8
30°	5043.7	3689.0	454.8	27.8	2.9	3.8	3.8	3.8	2.9
32.5°	4896.9	3606.5	385.7	20.1	1.9	2.9	2.9	2.9	1.9
35°	4559.2	3416.5	314.7	13.4	1.9	1.9	1.9	1.9	1.0
37.5°	4292.5	3132.5	240.8	7.7	1.0	1.9	1.9	1.0	0.0
40°	3980.7	2720.9	173.7	4.8	1.0	1.0	1.0	0.0	0.0
42.5°	3664.1	2301.7	118.0	1.9	0.0	1.0	1.0	0.0	0.0
45°	3247.7	1762.5	77.7	1.0	0.0	1.0	0.0	0.0	0.0
47.5°	2731.5	1279.9	52.8	0.0	0.0	1.0	0.0	0.0	0.0
50°	2096.3	716.7	29.7	0.0	1.0	1.0	1.0	0.0	0.0
52.5°	1381.6	357.9	11.5	0.0	1.0	1.0	1.0	0.0	0.0
55°	670.6	191.9	3.8	1.0	1.0	1.9	1.0	0.0	0.0
57.5°	316.6	74.8	1.0	1.0	1.9	1.9	1.0	0.0	0.0
60°	90.2	15.4	1.0	1.0	1.9	1.9	1.0	1.0	0.0
62.5°	12.5	1.9	1.0	1.9	1.9	1.9	1.9	1.0	0.0
65°	3.8	1.0	1.0	1.9	1.9	1.9	1.9	1.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	1.0	1.0	1.9	1.9	1.9	1.9	1.0	0.0
70°	0.0	1.0	1.0	1.9	1.9	1.9	1.9	1.0	0.0
72.5°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	1.0	0.0
75°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	1.0	1.0
77.5°	0.0	1.0	1.9	1.9	2.9	1.9	1.9	1.0	0.0
80°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	1.0	0.0
82.5°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	1.0	0.0
85°	0.0	1.0	1.9	1.9	1.9	1.9	1.9	1.0	0.0
87.5°	0.0	1.0	1.9	1.9	1.9	1.9	1.0	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)