

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: METALUX

Report Number: P237813

Luminaire Tested: **8VT2-LD5-12-FR50-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-12-FR50-UNV-L840-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12272.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

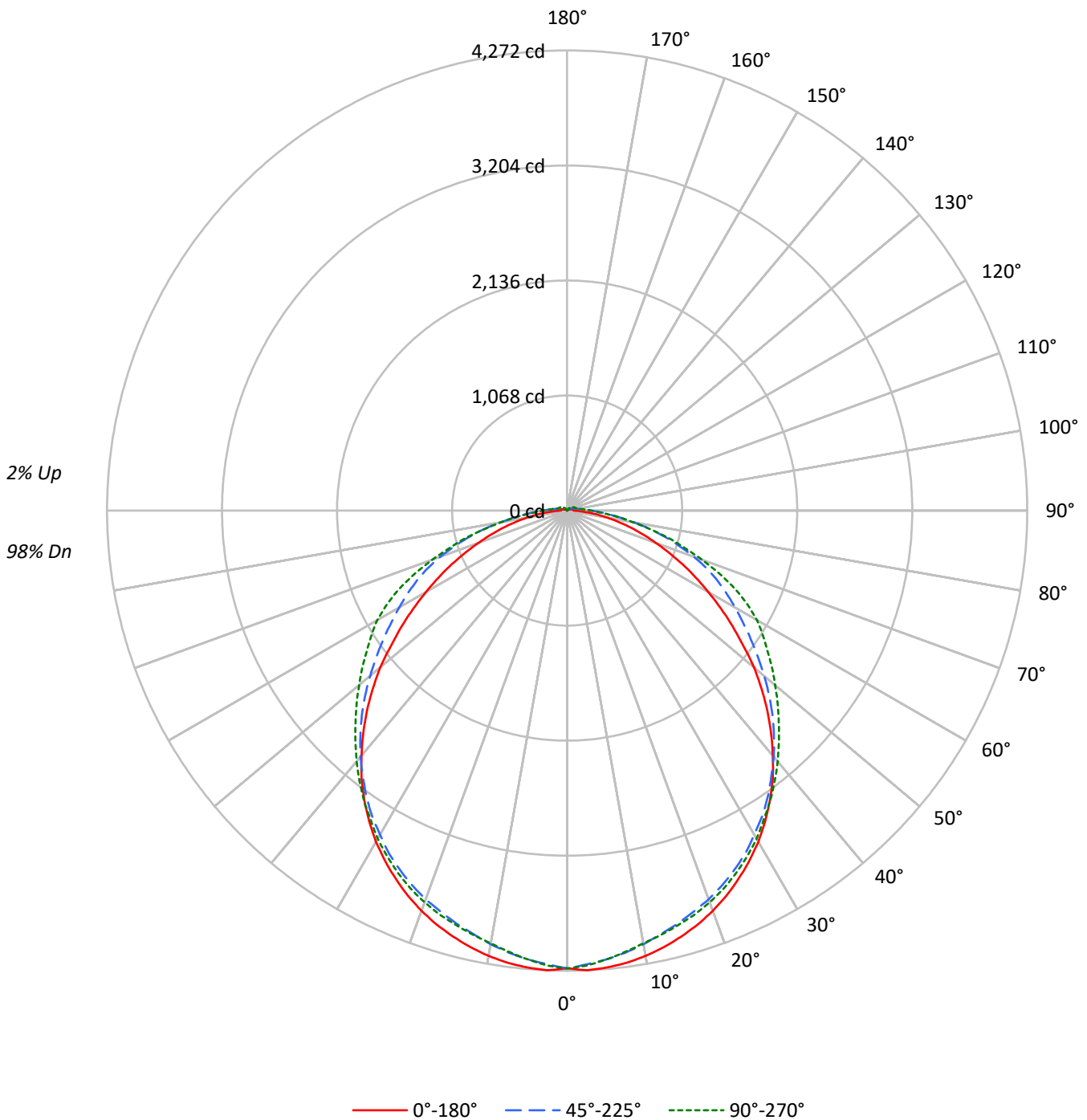
Input Watts (W): 101.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10979	10979	10979
5°	11022	10617	10542
10°	10973	10271	10108
15°	10890	9951	9781
20°	10791	9676	9488
25°	10646	9389	9162
30°	10468	9056	8800
35°	10207	8717	8407
40°	9850	8318	8011
45°	9420	7880	7612
50°	8887	7395	7248
55°	8214	6911	6926
60°	7560	6491	6669
65°	6927	6129	6131
70°	6243	5598	5235
75°	5684	4824	4306
80°	5051	3865	3191
85°	4536	2937	2268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.7	3.2
10°-20°	1131.5	9.2
20°-30°	1707.2	13.9
30°-40°	2037.3	16.6
40°-50°	2077.4	16.9
50°-60°	1859.7	15.2
60°-70°	1470.0	12.0
70°-80°	909.6	7.4
80°-90°	382.8	3.1
90°-100°	136.4	1.1
100°-110°	72.4	0.6
110°-120°	47.5	0.4
120°-130°	27.5	0.2
130°-140°	12.3	0.1
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3237.4	26.4
0°-40°	5274.6	43.0
0°-60°	9211.7	75.1
0°-90°	11974.1	97.6
90°-120°	256.3	2.1
90°-150°	298.0	2.4
90°-180°	298.0	2.4
0°-180°	12272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4250	4250	4250	4250	4250	
5°	4258	4226	4184	4198	4184	404
15°	4094	4028	3970	3994	3984	1155
25°	3770	3690	3678	3718	3714	1736
35°	3282	3222	3248	3288	3288	2050
45°	2630	2610	2696	2764	2778	2024
55°	1876	1918	2082	2230	2270	1680
65°	1182	1264	1540	1698	1720	1173
75°	612	740	934	970	968	651
85°	188	294	382	384	368	195
90°	62	154	228	230	222	41
95°	56	86	142	146	142	45
105°	44	42	76	86	84	47
115°	24	22	52	70	70	24
125°	10	6	32	50	56	10
135°	4	4	12	28	34	4
145°	0	0	0	0	0	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4249.8	4249.8	4249.8	4249.8	4249.8
2.5°	4271.8	4247.8	4215.8	4237.8	4227.8
5°	4257.8	4225.8	4183.8	4197.8	4183.8
7.5°	4233.8	4193.8	4139.8	4145.8	4131.8
10°	4197.8	4149.8	4087.8	4093.8	4079.8
12.5°	4151.8	4093.8	4025.8	4047.8	4033.8
15°	4093.8	4027.8	3969.8	3993.8	3983.8
17.5°	4029.8	3957.8	3903.8	3941.8	3933.8
20°	3953.8	3873.8	3839.8	3875.8	3869.8
22.5°	3867.8	3781.8	3763.8	3803.8	3797.8
25°	3769.8	3689.8	3677.8	3717.8	3713.8
27.5°	3663.8	3579.8	3585.8	3619.8	3617.8
30°	3549.8	3475.8	3473.8	3519.8	3517.8
32.5°	3421.8	3347.8	3367.8	3403.8	3397.8
35°	3281.8	3221.8	3247.8	3287.8	3287.8
37.5°	3135.8	3079.8	3113.8	3155.8	3165.8
40°	2969.9	2927.9	2983.8	3033.8	3039.8
42.5°	2801.9	2773.9	2841.9	2897.9	2909.9
45°	2629.9	2609.9	2695.9	2763.9	2777.9
47.5°	2445.9	2445.9	2543.9	2625.9	2651.9
50°	2263.9	2263.9	2387.9	2489.9	2519.9
52.5°	2061.9	2089.9	2231.9	2353.9	2397.9
55°	1875.9	1917.9	2081.9	2229.9	2269.9
57.5°	1691.9	1743.9	1935.9	2107.9	2153.9
60°	1513.9	1583.9	1799.9	1983.9	2035.9
62.5°	1345.9	1419.9	1669.9	1849.9	1885.9
65°	1181.9	1263.9	1539.9	1697.9	1719.9
67.5°	1023.9	1129.9	1403.9	1523.9	1531.9
70°	872.0	995.9	1249.9	1339.9	1327.9
72.5°	740.0	864.0	1091.9	1153.9	1133.9
75°	612.0	740.0	934.0	970.0	968.0
77.5°	492.0	618.0	780.0	800.0	780.0
80°	378.0	504.0	628.0	638.0	620.0
82.5°	282.0	390.0	494.0	500.0	490.0
85°	188.0	294.0	382.0	384.0	368.0
87.5°	114.0	214.0	292.0	296.0	284.0
90°	62.0	154.0	228.0	230.0	222.0
92.5°	58.0	112.0	176.0	180.0	176.0
95°	56.0	86.0	142.0	146.0	142.0
97.5°	56.0	70.0	116.0	122.0	118.0
100°	52.0	58.0	98.0	104.0	102.0
102.5°	50.0	48.0	86.0	94.0	90.0
105°	44.0	42.0	76.0	86.0	84.0
107.5°	40.0	36.0	70.0	80.0	78.0
110°	34.0	32.0	64.0	76.0	76.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.0	26.0	58.0	72.0	72.0
115°	24.0	22.0	52.0	70.0	70.0
117.5°	20.0	18.0	48.0	66.0	68.0
120°	16.0	14.0	42.0	60.0	64.0
122.5°	14.0	10.0	36.0	56.0	60.0
125°	10.0	6.0	32.0	50.0	56.0
127.5°	8.0	6.0	26.0	44.0	50.0
130°	6.0	4.0	22.0	40.0	44.0
132.5°	6.0	4.0	16.0	34.0	38.0
135°	4.0	4.0	12.0	28.0	34.0
137.5°	4.0	2.0	8.0	22.0	28.0
140°	4.0	2.0	4.0	18.0	22.0
142.5°	2.0	2.0	2.0	12.0	16.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)