

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: P237871

Luminaire Tested: **8VT2-LD5-16-FR50-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-13)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-16-FR50-UNV-L850-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (448) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17225.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

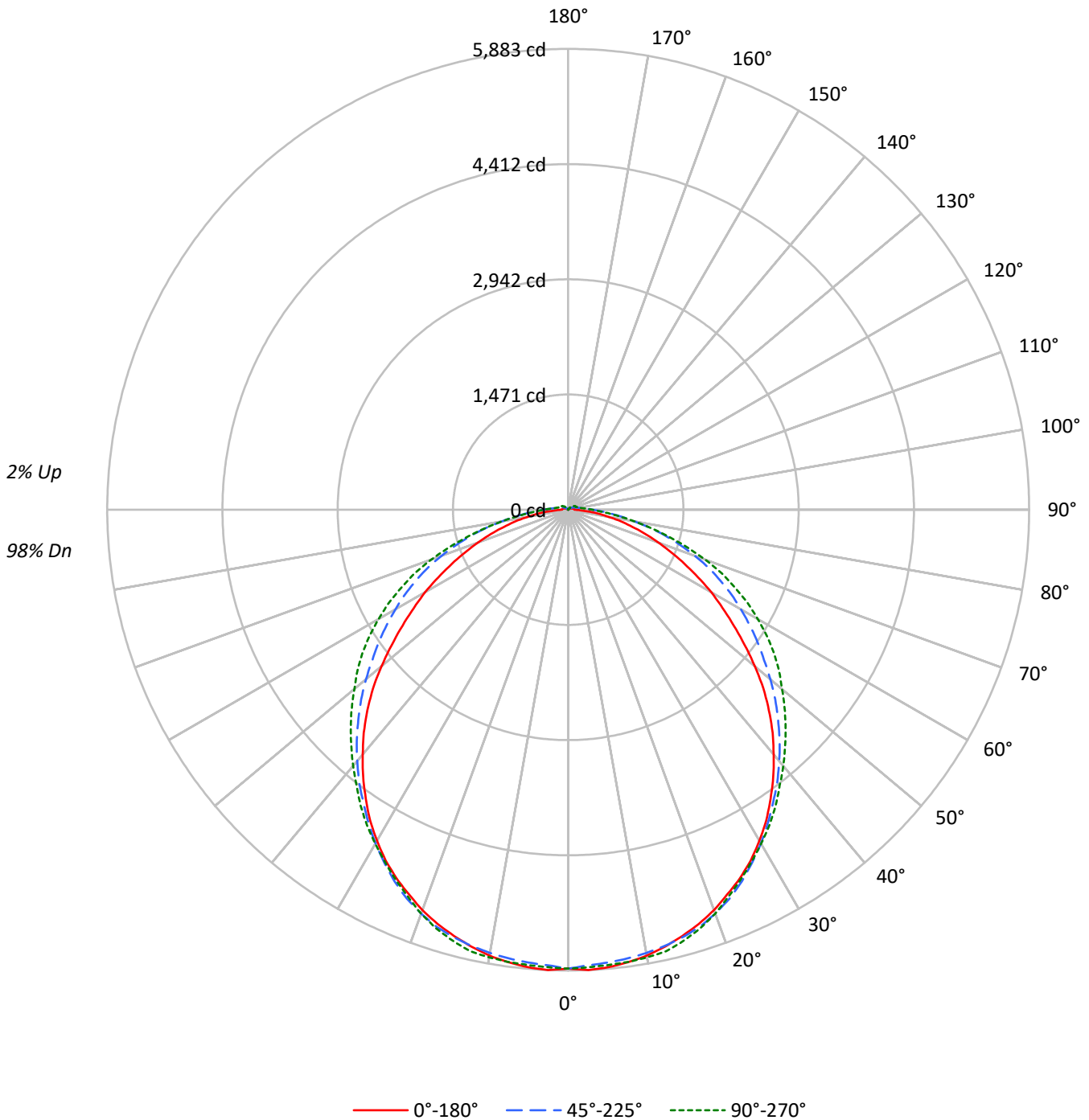
Input Watts (W): 117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	72	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	29
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	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°	15133	15133	15133
5°	15181	14726	14702
10°	15113	14436	14377
15°	14986	14163	13987
20°	14848	13827	13452
25°	14657	13374	12851
30°	14392	12823	12315
35°	14005	12241	11801
40°	13529	11679	11252
45°	12978	11068	10753
50°	12209	10426	10245
55°	11298	9796	9794
60°	10534	9182	9153
65°	9606	8540	8351
70°	8743	7691	7314
75°	7876	6625	5885
80°	6997	5272	4408
85°	6241	4058	3135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	3.2
10°-20°	1597.9	9.3
20°-30°	2407.1	14.0
30°-40°	2866.6	16.6
40°-50°	2926.5	17.0
50°-60°	2622.6	15.2
60°-70°	2046.7	11.9
70°-80°	1260.0	7.3
80°-90°	525.3	3.0
90°-100°	189.2	1.1
100°-110°	101.9	0.6
110°-120°	66.7	0.4
120°-130°	37.9	0.2
130°-140°	16.8	0.1
140°-150°	4.1	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4560.2	26.5
0°-40°	7426.8	43.1
0°-60°	12975.9	75.3
0°-90°	16808.0	97.6
90°-120°	357.8	2.1
90°-150°	416.6	2.4
90°-180°	417.0	2.4
0°-180°	17225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5858	5858	5858	5858	5858	
5°	5864	5843	5803	5843	5835	557
15°	5633	5635	5650	5714	5697	1590
25°	5190	5232	5239	5230	5209	2389
35°	4503	4598	4560	4611	4616	2815
45°	3623	3717	3786	3895	3924	2789
55°	2580	2731	2951	3148	3210	2316
65°	1639	1811	2146	2322	2343	1631
75°	848	1035	1283	1346	1323	909
85°	259	403	528	528	509	266
90°	85	214	312	316	307	54
95°	76	121	195	204	197	61
105°	59	59	108	121	119	63
115°	32	30	74	98	102	32
125°	15	8	42	70	76	13
135°	6	4	17	38	44	5
145°	2	2	2	11	15	2
155°	2	2	2	0	0	1
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°	5857.9	5857.9	5857.9	5857.9	5857.9
2.5°	5883.3	5862.1	5821.8	5860.0	5847.3
5°	5864.2	5843.0	5802.8	5843.0	5834.6
7.5°	5828.2	5813.4	5779.4	5828.2	5824.0
10°	5781.6	5766.7	5745.5	5804.9	5802.8
12.5°	5711.6	5705.2	5703.1	5777.3	5773.1
15°	5633.2	5635.3	5650.1	5713.7	5696.8
17.5°	5544.1	5556.8	5582.3	5620.4	5603.5
20°	5440.2	5461.4	5486.9	5501.7	5486.9
22.5°	5313.0	5351.2	5376.6	5366.0	5346.9
25°	5190.0	5232.5	5238.8	5230.3	5209.1
27.5°	5045.9	5098.9	5079.8	5090.4	5067.1
30°	4880.5	4954.7	4918.7	4937.8	4922.9
32.5°	4704.5	4791.5	4742.7	4774.5	4778.7
35°	4503.1	4598.5	4560.4	4611.3	4615.5
37.5°	4299.6	4399.2	4382.3	4445.9	4435.3
40°	4079.1	4189.4	4189.4	4259.3	4269.9
42.5°	3860.7	3954.0	3994.3	4077.0	4098.2
45°	3623.3	3716.6	3786.5	3894.7	3924.3
47.5°	3379.5	3483.4	3583.0	3701.7	3746.2
50°	3110.2	3235.3	3366.7	3521.5	3561.8
52.5°	2838.8	2978.8	3150.5	3337.1	3394.3
55°	2580.2	2730.7	2951.2	3148.4	3209.9
57.5°	2334.3	2489.0	2747.7	2955.4	3008.4
60°	2109.5	2243.1	2546.3	2762.5	2794.3
62.5°	1867.8	2026.8	2349.1	2548.4	2584.4
65°	1638.9	1810.6	2145.6	2321.5	2342.7
67.5°	1422.6	1598.6	1939.9	2094.7	2120.1
70°	1221.2	1407.8	1717.3	1846.6	1855.1
72.5°	1036.7	1219.1	1496.8	1600.7	1585.8
75°	848.0	1034.6	1282.7	1346.3	1323.0
77.5°	689.0	858.6	1066.4	1113.1	1077.0
80°	523.7	686.9	856.5	873.5	856.5
82.5°	383.7	536.4	682.7	686.9	661.5
85°	258.7	402.8	527.9	527.9	508.8
87.5°	146.3	294.7	402.8	407.1	385.9
90°	84.8	214.1	311.7	315.9	307.4
92.5°	78.4	154.8	243.8	250.2	241.7
95°	76.3	120.8	195.1	203.5	197.2
97.5°	74.2	97.5	163.2	169.6	165.4
100°	72.1	80.6	137.8	148.4	146.3
102.5°	65.7	70.0	120.8	131.4	129.3
105°	59.4	59.4	108.1	120.8	118.7
107.5°	53.0	50.9	97.5	114.5	112.4
110°	44.5	44.5	89.0	108.1	108.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	38.2	38.2	80.6	103.9	103.9
115°	31.8	29.7	74.2	97.5	101.8
117.5°	25.4	25.4	65.7	91.2	95.4
120°	21.2	19.1	57.2	84.8	91.2
122.5°	17.0	12.7	50.9	76.3	84.8
125°	14.8	8.5	42.4	70.0	76.3
127.5°	10.6	6.4	36.0	61.5	70.0
130°	8.5	6.4	29.7	53.0	61.5
132.5°	8.5	4.2	23.3	44.5	53.0
135°	6.4	4.2	17.0	38.2	44.5
137.5°	4.2	4.2	10.6	31.8	38.2
140°	4.2	4.2	6.4	23.3	29.7
142.5°	4.2	2.1	2.1	17.0	23.3
145°	2.1	2.1	2.1	10.6	14.8
147.5°	2.1	2.1	2.1	4.2	8.5
150°	2.1	2.1	2.1	0.0	2.1
152.5°	2.1	2.1	2.1	0.0	0.0
155°	2.1	2.1	2.1	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)