

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: P237760

Luminaire Tested: **2VT2-LD5-5-FR50-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-5-FR50-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5399.9 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

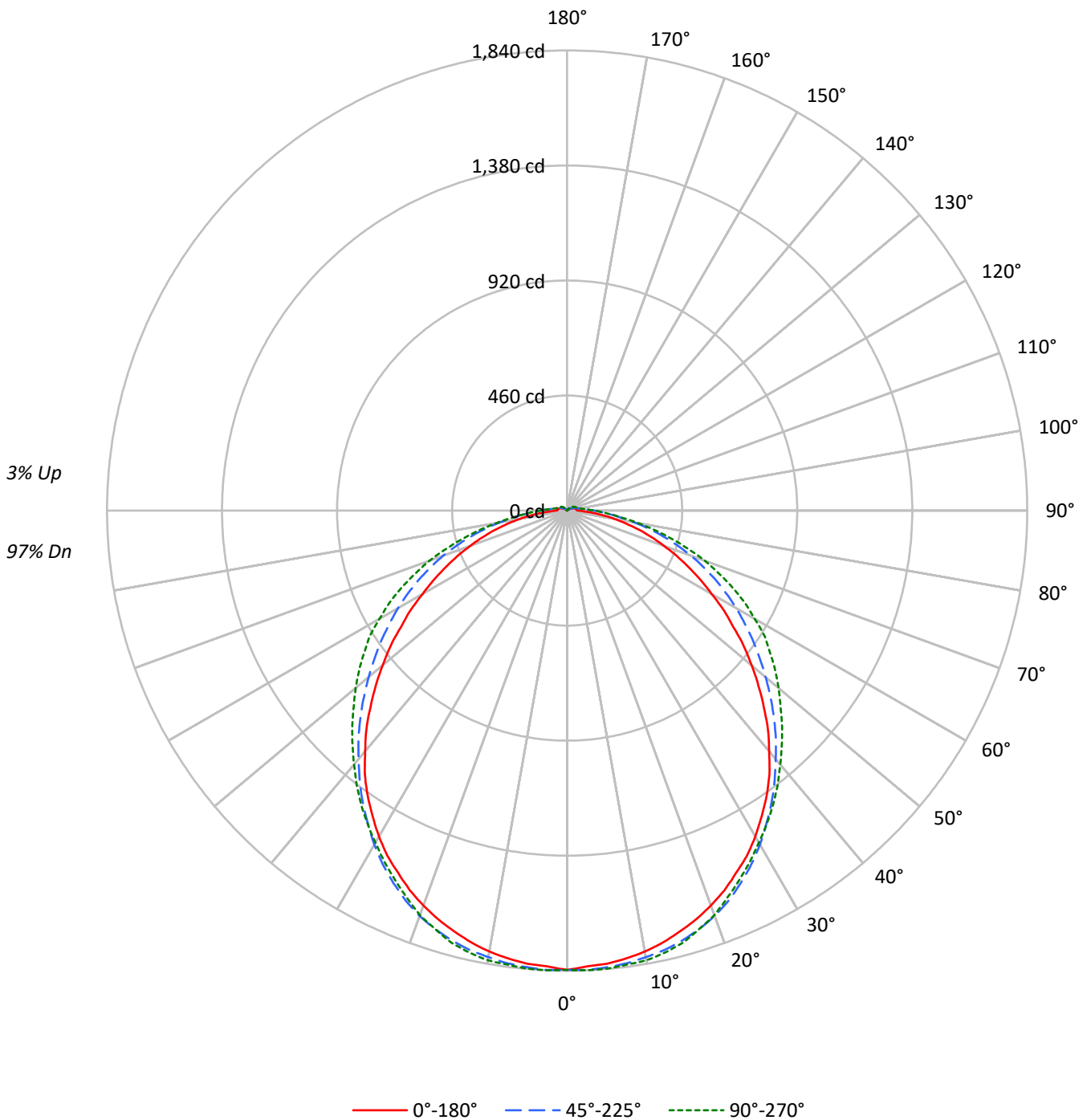
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	87	84	82	87	84	82	80		
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	76	72	69	76	72	69	66		
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	67	62	58	56		
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	60	54	50	60	54	50	47		
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	54	48	43	54	48	43	41		
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	49	43	38	49	43	38	49	43	38	36		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	44	38	34	32		
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	41	35	30	41	35	30	28		
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	38	32	27	38	32	27	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	35	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18979	18979	18979
5°	18736	18540	18530
10°	18526	18097	18096
15°	18251	17658	17567
20°	17957	17144	16880
25°	17574	16489	16076
30°	17162	15744	15342
35°	16620	14922	14683
40°	15882	14052	13973
45°	15056	13224	13323
50°	14142	12357	12700
55°	13113	11526	12086
60°	12111	10713	11346
65°	11184	9842	10424
70°	10197	8831	9235
75°	9165	7556	7640
80°	7917	6120	5919
85°	6267	4750	4331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	3.2
10°-20°	500.0	9.3
20°-30°	750.8	13.9
30°-40°	889.4	16.5
40°-50°	903.1	16.7
50°-60°	810.7	15.0
60°-70°	636.8	11.8
70°-80°	403.4	7.5
80°-90°	178.4	3.3
90°-100°	68.6	1.3
100°-110°	38.4	0.7
110°-120°	24.7	0.5
120°-130°	14.0	0.3
130°-140°	6.0	0.1
140°-150°	1.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1425.0	26.4
0°-40°	2314.4	42.9
0°-60°	4028.3	74.6
0°-90°	5246.9	97.2
90°-120°	131.7	2.4
90°-150°	153.1	2.8
90°-180°	153.0	2.8
0°-180°	5399.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1819	1826	1833	1838	1838	173
15°	1743	1757	1780	1790	1789	492
25°	1599	1627	1643	1634	1629	737
35°	1391	1421	1425	1430	1436	869
45°	1113	1146	1169	1201	1216	858
55°	811	846	907	969	990	729
65°	536	566	655	715	731	532
75°	298	332	396	429	429	316
85°	101	137	174	181	176	102
90°	43	76	106	110	108	26
95°	37	46	67	71	69	30
105°	32	27	37	43	41	34
115°	20	16	25	32	34	20
125°	9	5	14	23	25	9
135°	4	4	5	12	14	3
145°	2	2	0	4	5	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°	1836.7	1836.7	1836.7	1836.7	1836.7
2.5°	1824.3	1829.6	1838.5	1840.2	1840.2
5°	1818.9	1826.0	1833.1	1838.5	1838.5
7.5°	1806.5	1813.6	1826.0	1831.4	1831.4
10°	1790.5	1799.4	1813.6	1824.3	1826.0
12.5°	1769.3	1779.9	1799.4	1810.1	1810.1
15°	1742.6	1756.8	1779.9	1790.5	1788.8
17.5°	1714.2	1730.2	1755.1	1760.4	1755.1
20°	1680.5	1700.0	1724.9	1728.4	1721.3
22.5°	1643.3	1666.3	1687.6	1682.3	1675.2
25°	1598.9	1627.3	1643.3	1634.4	1629.1
27.5°	1556.3	1582.9	1595.3	1584.7	1582.9
30°	1504.8	1535.0	1542.1	1535.0	1533.2
32.5°	1448.1	1483.5	1483.5	1483.5	1485.3
35°	1391.3	1421.4	1425.0	1430.3	1435.6
37.5°	1329.2	1359.3	1362.9	1377.1	1382.4
40°	1256.4	1290.1	1297.2	1318.5	1325.6
42.5°	1189.0	1219.1	1235.1	1261.7	1270.6
45°	1112.7	1146.4	1169.4	1201.4	1215.6
47.5°	1038.1	1071.8	1102.0	1142.8	1157.0
50°	963.6	997.3	1036.4	1084.3	1103.8
52.5°	890.8	919.2	970.7	1027.5	1048.8
55°	811.0	846.5	906.8	968.9	990.2
57.5°	743.5	771.9	842.9	910.4	937.0
60°	667.2	699.2	780.8	848.2	866.0
62.5°	601.6	633.5	716.9	784.4	802.1
65°	535.9	566.1	654.8	715.2	731.1
67.5°	473.8	507.5	589.2	649.5	656.6
70°	411.7	447.2	527.0	578.5	585.6
72.5°	354.9	388.6	461.4	504.0	505.8
75°	298.1	331.8	395.7	429.4	429.4
77.5°	243.1	278.6	333.6	360.2	356.7
80°	193.4	225.4	273.3	287.5	287.5
82.5°	143.7	177.5	218.3	232.5	225.4
85°	101.2	136.6	173.9	181.0	175.7
87.5°	65.7	102.9	134.9	140.2	136.6
90°	42.6	76.3	106.5	110.0	108.2
92.5°	39.0	58.6	83.4	87.0	85.2
95°	37.3	46.1	67.4	71.0	69.2
97.5°	37.3	39.0	56.8	60.3	58.6
100°	35.5	33.7	47.9	51.5	49.7
102.5°	35.5	30.2	42.6	46.1	44.4
105°	31.9	26.6	37.3	42.6	40.8
107.5°	30.2	23.1	33.7	39.0	39.0
110°	26.6	19.5	30.2	37.3	37.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.1	17.7	28.4	35.5	35.5
115°	19.5	16.0	24.8	31.9	33.7
117.5°	16.0	12.4	21.3	30.2	31.9
120°	14.2	10.6	19.5	28.4	30.2
122.5°	12.4	8.9	17.7	24.8	28.4
125°	8.9	5.3	14.2	23.1	24.8
127.5°	8.9	5.3	12.4	19.5	23.1
130°	7.1	5.3	10.6	17.7	19.5
132.5°	5.3	3.5	7.1	14.2	17.7
135°	3.5	3.5	5.3	12.4	14.2
137.5°	3.5	1.8	3.5	10.6	12.4
140°	1.8	1.8	1.8	7.1	8.9
142.5°	1.8	1.8	0.0	5.3	7.1
145°	1.8	1.8	0.0	3.5	5.3
147.5°	1.8	1.8	0.0	1.8	3.5
150°	1.8	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)