

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: P233288

Luminaire Tested: **4VT3-LD5-6-G-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4VT3-LD5-6-G-UNV-L850-CD1-U  
Description: 4FT VT3 GENERAL APPLICATION, 6000LM  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6490.0 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')  
CIE Type: Direct

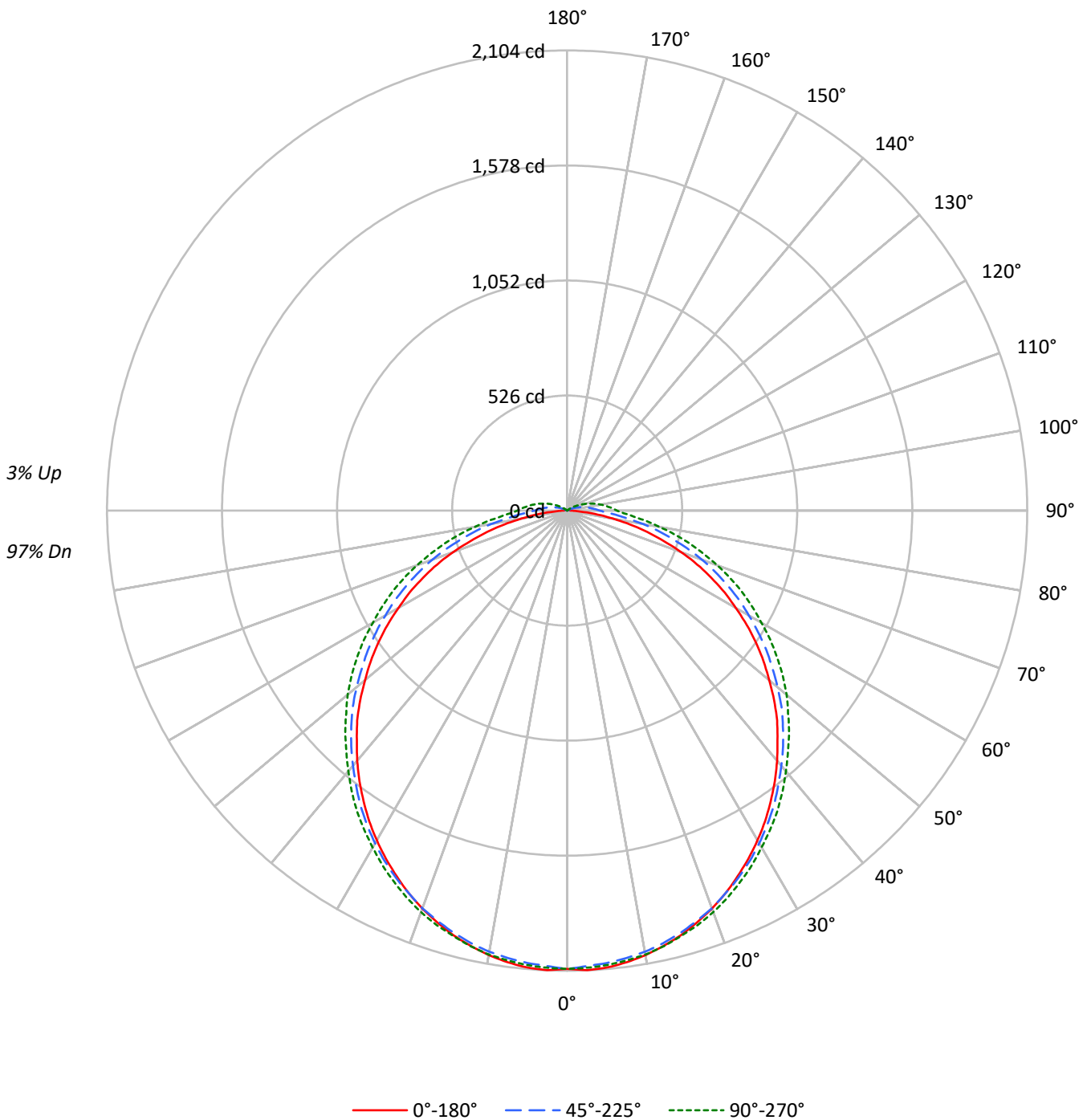
Input Watts (W): 51.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99	97
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	79
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	75	71	67	65
3	88	77	69	62	85	75	67	61	72	65	60	69	63	58	66	61	57	54
4	81	68	59	52	78	67	58	52	64	56	51	61	55	49	58	53	48	46
5	74	61	52	45	72	59	51	44	57	49	44	55	48	43	52	47	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	42	37	35
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	36	31	57	44	36	30	43	35	30	41	34	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	24
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13534	13534	13534
5°	13293	11500	11097
10°	12941	9993	9380
15°	12565	8778	8062
20°	12156	7774	7030
25°	11723	6912	6164
30°	11285	6159	5428
35°	10819	5489	4805
40°	10331	4868	4236
45°	9838	4318	3744
50°	9250	3796	3308
55°	8658	3305	2890
60°	7930	2831	2484
65°	7128	2384	2121
70°	6093	1947	1752
75°	4788	1491	1398
80°	3197	1074	1047
85°	1440	707	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.3	3.1
10°-20°	566.8	8.7
20°-30°	856.3	13.2
30°-40°	1031.6	15.9
40°-50°	1077.7	16.6
50°-60°	995.6	15.3
60°-70°	798.2	12.3
70°-80°	517.1	8.0
80°-90°	238.9	3.7
90°-100°	117.8	1.8
100°-110°	62.9	1.0
110°-120°	24.4	0.4
120°-130°	4.5	0.1
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°	1621.3	25.0
0°-40°	2652.9	40.9
0°-60°	4726.1	72.8
0°-90°	6280.3	96.8
90°-120°	205.1	3.2
90°-150°	209.7	3.2
90°-180°	210.0	3.2
0°-180°	6490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2096	2096	2096	2096	2096	
5°	2097	2091	2077	2089	2086	199
15°	2010	2009	1999	2015	2014	567
25°	1845	1850	1853	1870	1873	850
35°	1622	1634	1648	1667	1676	1015
45°	1358	1373	1396	1422	1435	1045
55°	1055	1078	1112	1153	1173	942
65°	727	749	809	861	883	719
75°	378	426	495	555	579	401
85°	77	142	222	281	301	93
90°	17	71	148	207	227	12
95°	11	44	114	170	191	9
105°	5	10	57	104	123	6
115°	2	2	16	46	60	2
125°	2	0	0	8	14	1
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
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°	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2103.5	2097.2	2084.5	2095.6	2092.4
5°	2097.2	2090.9	2076.7	2089.3	2086.1
7.5°	2083.0	2076.7	2064.0	2078.2	2075.1
10°	2064.0	2059.3	2048.3	2060.9	2060.9
12.5°	2038.8	2037.2	2026.2	2040.4	2040.4
15°	2010.4	2008.9	1999.4	2015.2	2013.6
17.5°	1974.2	1975.7	1967.9	1983.6	1986.8
20°	1936.3	1936.3	1934.7	1950.5	1953.7
22.5°	1893.8	1895.3	1893.8	1912.7	1915.8
25°	1844.9	1849.6	1852.8	1870.1	1873.3
27.5°	1794.4	1800.7	1807.0	1824.4	1829.1
30°	1740.8	1745.5	1756.6	1775.5	1778.6
32.5°	1684.0	1693.5	1703.0	1721.9	1728.2
35°	1622.5	1633.6	1647.8	1666.7	1676.2
37.5°	1559.5	1572.1	1584.7	1609.9	1617.8
40°	1493.2	1507.4	1523.2	1546.9	1556.3
42.5°	1423.9	1442.8	1461.7	1486.9	1494.8
45°	1357.6	1373.4	1395.5	1422.3	1434.9
47.5°	1283.5	1304.0	1329.3	1357.6	1370.2
50°	1206.3	1228.3	1256.7	1289.8	1310.3
52.5°	1132.2	1154.2	1182.6	1223.6	1242.5
55°	1054.9	1078.5	1111.7	1152.6	1173.1
57.5°	974.5	999.7	1036.0	1081.7	1102.2
60°	890.9	917.7	960.3	1010.7	1024.9
62.5°	812.1	837.3	886.2	935.0	955.5
65°	726.9	749.0	808.9	860.9	883.0
67.5°	643.3	668.6	731.6	788.4	807.3
70°	553.5	585.0	656.0	708.0	730.1
72.5°	463.6	501.4	575.5	632.3	652.8
75°	378.4	425.7	495.1	555.0	578.7
77.5°	296.4	345.3	424.2	479.4	503.0
80°	212.9	271.2	348.5	405.2	427.3
82.5°	141.9	201.8	279.1	339.0	362.7
85°	77.3	141.9	222.3	280.7	301.2
87.5°	36.3	99.3	175.0	233.4	257.0
90°	17.3	71.0	148.2	206.6	227.1
92.5°	14.2	55.2	130.9	187.6	209.7
95°	11.0	44.2	113.5	170.3	190.8
97.5°	9.5	31.5	99.3	153.0	175.0
100°	7.9	22.1	83.6	137.2	156.1
102.5°	6.3	14.2	69.4	121.4	140.3
105°	4.7	9.5	56.8	104.1	123.0
107.5°	4.7	4.7	45.7	88.3	107.2
110°	3.2	3.2	33.1	74.1	89.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	3.2	23.7	59.9	74.1
115°	1.6	1.6	15.8	45.7	59.9
117.5°	1.6	1.6	9.5	34.7	45.7
120°	1.6	1.6	4.7	23.7	34.7
122.5°	1.6	1.6	1.6	15.8	23.7
125°	1.6	0.0	0.0	7.9	14.2
127.5°	0.0	0.0	0.0	3.2	7.9
130°	0.0	0.0	0.0	0.0	1.6
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
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)