

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: P233258

Luminaire Tested: **2VT3-LD5-2-G-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VT3-LD5-2-G-UNV-L850-CD1-U  
Description: 2FT VT3 GENRAL APPLICATION, 2000LM  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

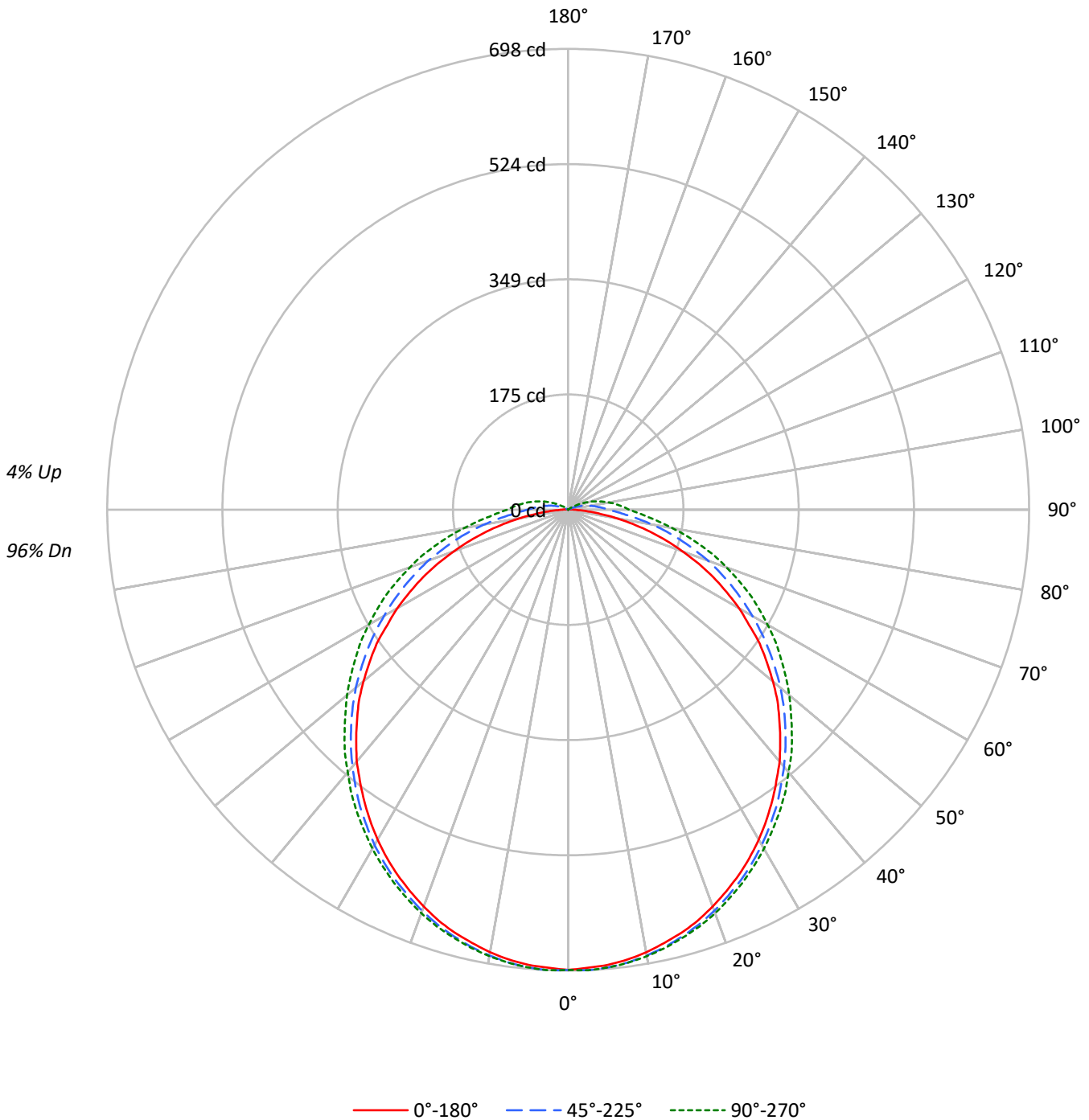
Lumens per Lamp: N/A  
Luminaire Lumens: 2203.0 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 15.7  
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



TEST NUMBER: P233258  
CATALOG NUMBER: 2VT3-LD5-2-G-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P233258

CATALOG NUMBER: 2VT3-LD5-2-G-UNV-L850-CD1-U

**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	96
1	107	101	97	92	103	99	94	90	94	90	87	89	86	83	85	82	80	78
2	96	88	80	74	93	85	79	73	81	76	71	77	73	69	74	70	66	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	58	52	48	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	24	50	37	30	24	36	29	24	35	28	24	34	28	23	22

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

	0°	45°	90°
0°	9004	9004	9004
5°	8584	7603	7405
10°	8178	6533	6252
15°	7785	5689	5373
20°	7391	5000	4681
25°	7004	4419	4105
30°	6617	3916	3619
35°	6223	3471	3200
40°	5842	3069	2825
45°	5433	2707	2499
50°	5015	2379	2207
55°	4572	2065	1937
60°	4062	1770	1690
65°	3504	1496	1458
70°	2851	1236	1222
75°	2172	976	1000
80°	1420	730	782
85°	648	510	598



TEST NUMBER: P233258

CATALOG NUMBER: 2VT3-LD5-2-G-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.0	3.0
10°-20°	188.5	8.6
20°-30°	284.8	12.9
30°-40°	343.3	15.6
40°-50°	359.1	16.3
50°-60°	333.0	15.1
60°-70°	270.1	12.3
70°-80°	181.6	8.2
80°-90°	93.1	4.2
90°-100°	48.1	2.2
100°-110°	25.0	1.1
110°-120°	9.2	0.4
120°-130°	1.2	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°	539.3	24.5
0°-40°	882.6	40.1
0°-60°	1574.7	71.5
0°-90°	2119.5	96.2
90°-120°	82.3	3.7
90°-150°	83.6	3.8
90°-180°	84.0	3.8
0°-180°	2203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	692	693	696	697	696	66
15°	663	666	669	671	671	187
25°	611	613	619	623	624	281
35°	539	542	549	555	558	337
45°	452	456	465	474	479	349
55°	354	358	371	387	393	315
65°	243	251	273	295	304	240
75°	128	145	175	198	207	135
85°	30	56	87	111	119	34
90°	9	31	61	84	92	5
95°	5	18	46	69	77	4
105°	3	4	23	41	48	3
115°	1	1	5	17	22	1
125°	0	0	0	2	4	0
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



TEST NUMBER: P233258

CATALOG NUMBER: 2VT3-LD5-2-G-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	697.1	697.1	697.1	697.1	697.1
2.5°	694.4	695.5	698.2	698.7	698.2
5°	692.2	693.3	696.0	696.6	696.0
7.5°	687.3	689.0	691.7	692.8	692.2
10°	680.8	682.5	685.7	686.8	686.8
12.5°	672.1	674.3	678.1	679.2	679.7
15°	663.4	665.6	668.9	671.0	671.0
17.5°	652.6	654.2	658.6	661.3	661.8
20°	639.6	641.7	646.6	649.9	650.4
22.5°	625.4	628.2	633.0	636.8	637.4
25°	610.8	613.0	618.9	622.7	623.8
27.5°	594.5	596.7	603.2	607.0	608.6
30°	577.1	579.8	586.4	591.8	592.9
32.5°	558.1	561.4	567.9	573.3	575.5
35°	538.6	541.8	549.4	554.9	558.1
37.5°	517.9	521.2	528.8	536.4	539.7
40°	497.9	500.6	508.2	515.8	519.0
42.5°	475.1	478.9	487.0	496.2	500.6
45°	452.3	455.5	464.7	474.5	478.9
47.5°	430.0	433.3	442.5	452.8	457.7
50°	404.5	407.7	419.7	431.6	437.1
52.5°	379.0	382.8	395.2	409.9	415.3
55°	354.0	357.8	371.4	387.1	393.1
57.5°	324.7	332.3	346.9	364.3	372.4
60°	299.1	305.1	322.0	341.0	348.6
62.5°	270.4	278.0	297.5	318.2	325.8
65°	242.7	251.4	273.1	295.3	303.5
67.5°	213.9	223.1	249.2	271.5	278.5
70°	183.5	197.1	224.8	246.5	254.6
72.5°	156.4	170.5	199.3	222.1	232.4
75°	128.1	145.0	175.4	198.2	206.9
77.5°	99.9	120.0	152.6	174.3	184.0
80°	75.5	96.6	128.7	151.5	159.6
82.5°	49.9	74.9	107.0	130.3	139.0
85°	30.4	55.9	87.4	111.3	119.4
87.5°	15.2	40.7	72.8	95.6	104.8
90°	8.7	30.9	61.3	84.2	92.3
92.5°	7.1	23.9	53.7	76.0	84.7
95°	5.4	17.9	46.1	69.0	77.1
97.5°	4.3	13.0	40.2	61.9	70.0
100°	3.8	9.2	33.7	54.8	63.0
102.5°	3.3	6.0	28.2	47.8	55.4
105°	2.7	3.8	22.8	41.3	48.3
107.5°	2.2	2.2	17.4	34.7	41.3
110°	1.6	1.6	12.5	28.2	35.3



TEST NUMBER: P233258

CATALOG NUMBER: 2VT3-LD5-2-G-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	8.7	22.8	28.2
115°	1.1	1.1	5.4	17.4	22.3
117.5°	1.1	1.1	2.7	12.5	16.8
120°	0.5	0.5	1.1	8.1	11.9
122.5°	0.5	0.5	0.5	4.3	7.6
125°	0.5	0.0	0.0	1.6	3.8
127.5°	0.0	0.0	0.0	0.0	1.1
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.5	0.0	0.0	0.0	0.0
135°	0.5	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)