

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: P237742

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VT2-LD5-5-DR-UNV-L850-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC 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: 5485.9 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
CIE Type: Direct

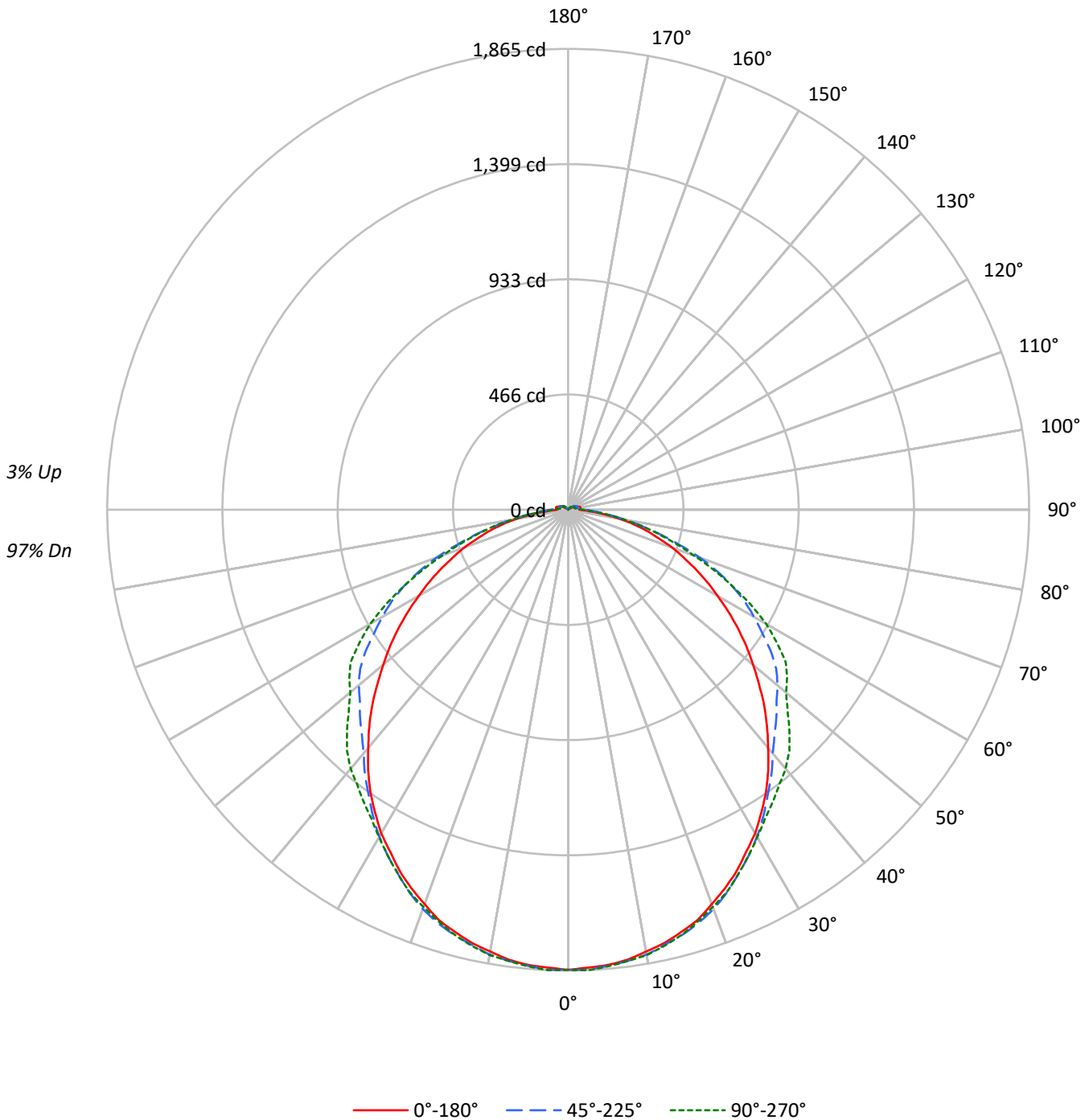
Input Watts (W): 39  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97
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	80	75	83	78	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	56	49	44	53	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	31	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	19240	19240	19240
5°	19051	18742	18694
10°	18787	18243	18135
15°	18534	17679	17483
20°	18150	17094	16779
25°	17734	16331	16061
30°	17247	15602	15310
35°	16665	14739	14758
40°	15907	13939	14425
45°	15178	13468	13870
50°	14327	13184	13232
55°	13546	12723	13106
60°	12661	11908	12116
65°	11854	11017	10451
70°	11079	9518	8510
75°	10097	7388	6695
80°	8572	5166	4715
85°	6156	3442	2886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.1	3.2
10°-20°	501.6	9.1
20°-30°	748.5	13.6
30°-40°	886.0	16.1
40°-50°	920.0	16.8
50°-60°	861.4	15.7
60°-70°	689.6	12.6
70°-80°	407.1	7.4
80°-90°	146.6	2.7
90°-100°	52.9	1.0
100°-110°	38.9	0.7
110°-120°	29.5	0.5
120°-130°	17.7	0.3
130°-140°	8.5	0.2
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1426.2	26.0
0°-40°	2312.1	42.1
0°-60°	4093.5	74.6
0°-90°	5336.8	97.3
90°-120°	121.4	2.2
90°-150°	149.1	2.7
90°-180°	149.0	2.7
0°-180°	5485.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1850	1851	1853	1858	1855	175
15°	1770	1770	1782	1789	1780	499
25°	1613	1624	1628	1631	1628	742
35°	1395	1402	1408	1429	1443	871
45°	1122	1129	1191	1262	1266	864
55°	838	863	1001	1044	1074	749
65°	568	671	733	746	733	564
75°	328	419	387	380	376	346
85°	99	137	126	122	117	105
90°	44	73	69	64	62	27
95°	46	52	48	41	39	39
105°	46	41	39	32	27	47
115°	27	28	36	30	27	27
125°	12	12	23	25	25	11
135°	5	4	11	16	18	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



TEST NUMBER: P237742

CATALOG NUMBER: 2VT2-LD5-5-DR-UNV-L850-CD1-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1861.9	1861.9	1861.9	1861.9	1861.9
2.5°	1854.8	1860.1	1863.7	1867.2	1865.4
5°	1849.5	1851.2	1853.0	1858.3	1854.8
7.5°	1837.0	1837.0	1842.4	1847.7	1842.4
10°	1815.7	1817.5	1828.2	1837.0	1829.9
12.5°	1796.2	1798.0	1803.3	1819.3	1806.9
15°	1769.6	1769.6	1782.0	1789.1	1780.2
17.5°	1741.2	1741.2	1753.6	1755.4	1746.5
20°	1698.6	1702.1	1719.9	1714.6	1711.0
22.5°	1657.8	1663.1	1677.3	1679.1	1675.5
25°	1613.4	1624.0	1627.6	1631.1	1627.6
27.5°	1560.1	1574.3	1579.7	1577.9	1579.7
30°	1512.2	1521.1	1528.2	1530.0	1530.0
32.5°	1453.7	1462.5	1469.6	1476.7	1482.0
35°	1395.1	1402.2	1407.5	1428.8	1443.0
37.5°	1329.4	1340.1	1350.7	1386.2	1402.2
40°	1258.4	1269.1	1286.8	1343.6	1368.5
42.5°	1191.0	1199.8	1235.3	1309.9	1324.1
45°	1121.7	1128.8	1191.0	1262.0	1265.5
47.5°	1047.2	1057.8	1143.0	1198.1	1203.4
50°	976.2	992.2	1105.8	1137.7	1150.1
52.5°	908.8	926.5	1061.4	1084.5	1116.4
55°	837.8	862.6	1001.0	1043.6	1073.8
57.5°	768.5	811.1	931.8	990.4	1001.0
60°	697.5	761.4	867.9	923.0	924.7
62.5°	633.6	715.3	805.8	836.0	832.4
65°	568.0	670.9	733.0	745.5	733.0
67.5°	504.1	623.0	653.2	642.5	639.0
70°	447.3	560.9	568.0	544.9	539.6
72.5°	383.4	489.9	470.4	461.5	456.2
75°	328.4	418.9	386.9	379.8	376.3
77.5°	269.8	342.6	301.7	305.3	305.3
80°	209.4	266.2	230.7	234.3	229.0
82.5°	152.6	195.2	175.7	173.9	168.6
85°	99.4	136.7	126.0	122.5	117.1
87.5°	60.3	95.8	92.3	88.7	85.2
90°	44.4	72.8	69.2	63.9	62.1
92.5°	44.4	60.3	56.8	51.5	47.9
95°	46.1	51.5	47.9	40.8	39.0
97.5°	49.7	47.9	42.6	37.3	33.7
100°	49.7	44.4	40.8	33.7	30.2
102.5°	47.9	42.6	39.0	31.9	28.4
105°	46.1	40.8	39.0	31.9	26.6
107.5°	40.8	39.0	39.0	30.2	26.6
110°	37.3	35.5	37.3	30.2	26.6



TEST NUMBER: P237742

CATALOG NUMBER: 2VT2-LD5-5-DR-UNV-L850-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.9	31.9	37.3	30.2	26.6
115°	26.6	28.4	35.5	30.2	26.6
117.5°	23.1	23.1	31.9	28.4	26.6
120°	17.7	19.5	30.2	28.4	24.8
122.5°	14.2	16.0	26.6	26.6	24.8
125°	12.4	12.4	23.1	24.8	24.8
127.5°	8.9	8.9	19.5	23.1	23.1
130°	7.1	7.1	17.7	21.3	21.3
132.5°	7.1	5.3	14.2	19.5	19.5
135°	5.3	3.5	10.6	16.0	17.7
137.5°	3.5	3.5	8.9	14.2	16.0
140°	3.5	3.5	5.3	10.6	12.4
142.5°	3.5	1.8	3.5	8.9	10.6
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)