

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: P237796

Luminaire Tested: **4VRVT2-LD5-6-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4VRVT2-LD5-6-DR100-UNV-L850-CD1-WL-U  
Description: METALUX VRVT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
4FT FIXTURE  
Light Source: (112) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6574.0 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')  
CIE Type: Direct

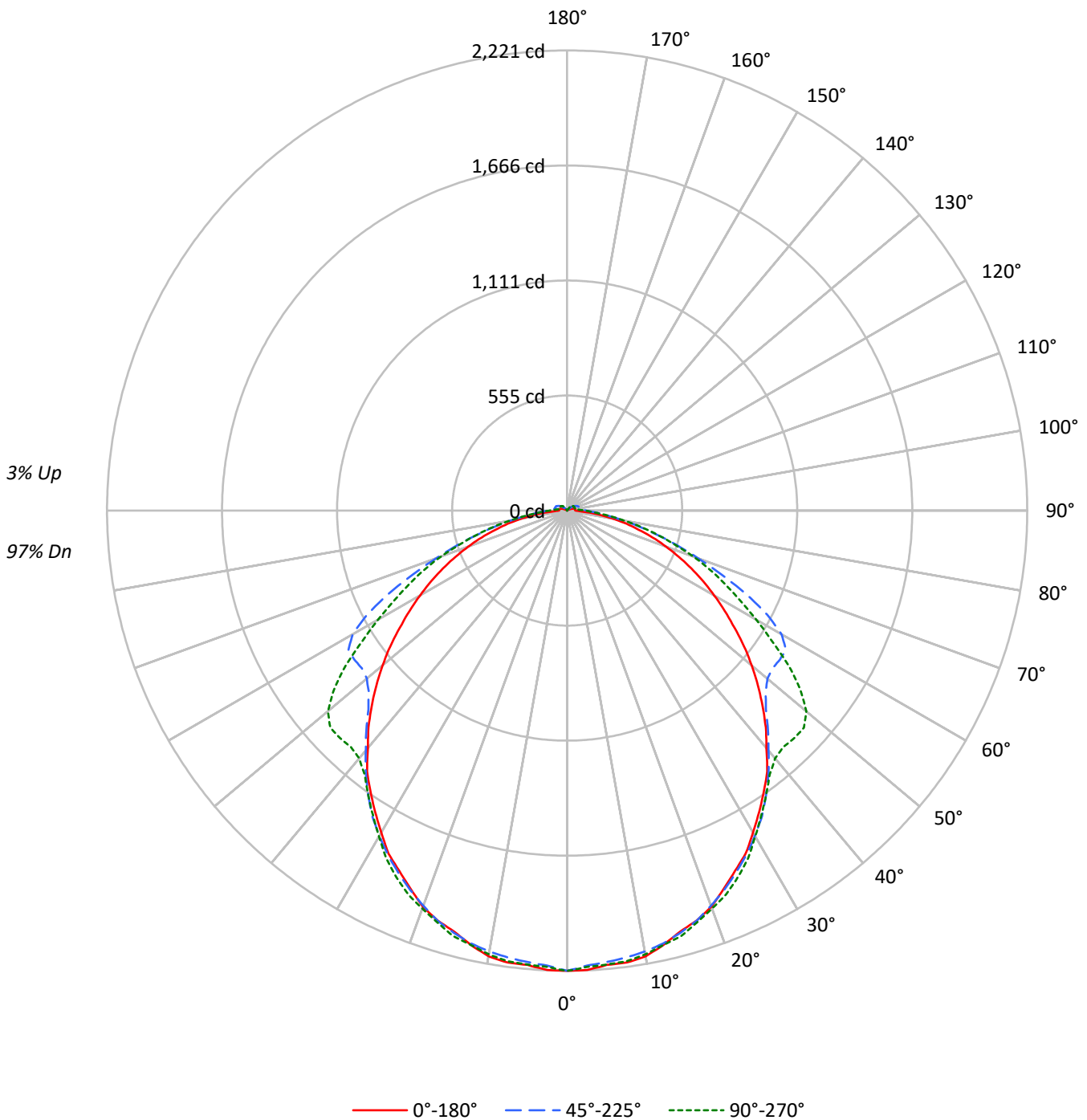
Input Watts (W): 50.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P237796

CATALOG NUMBER: 4VRVT2-LD5-6-DR100-UNV-L850-CD1-WL-U

### Luminous Intensity Polar Plot





TEST NUMBER: P237796

CATALOG NUMBER: 4VRVT2-LD5-6-DR100-UNV-L850-CD1-WL-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	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	86	87	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°
0°	11477	11477	11477
5°	11377	11089	11083
10°	11380	10833	10776
15°	11134	10542	10440
20°	11028	10181	10025
25°	10736	9786	9627
30°	10463	9382	9083
35°	10151	8914	8564
40°	9766	8351	8228
45°	9367	7842	8503
50°	8920	7718	8670
55°	8399	8202	7968
60°	7927	8477	6909
65°	7446	7438	5992
70°	6910	5874	5098
75°	6222	4508	4007
80°	5423	3258	2869
85°	4011	2299	1881



TEST NUMBER: P237796

CATALOG NUMBER: 4VRVT2-LD5-6-DR100-UNV-L850-CD1-WL-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.1	3.2
10°-20°	596.8	9.1
20°-30°	892.0	13.6
30°-40°	1044.6	15.9
40°-50°	1091.4	16.6
50°-60°	1060.3	16.1
60°-70°	824.9	12.5
70°-80°	485.4	7.4
80°-90°	175.4	2.7
90°-100°	66.6	1.0
100°-110°	49.6	0.8
110°-120°	38.5	0.6
120°-130°	24.5	0.4
130°-140°	12.5	0.2
140°-150°	2.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1697.8	25.8
0°-40°	2742.4	41.7
0°-60°	4894.1	74.4
0°-90°	6379.8	97.0
90°-120°	154.7	2.4
90°-150°	194.2	3.0
90°-180°	194.0	3.0
0°-180°	6574.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2221	2221	2221	2221	2221	
5°	2201	2195	2188	2202	2199	210
15°	2104	2110	2110	2129	2126	596
25°	1918	1934	1928	1952	1951	885
35°	1654	1666	1675	1676	1675	1035
45°	1333	1346	1357	1483	1552	1029
55°	986	1016	1254	1351	1306	884
65°	661	783	953	840	840	655
75°	358	532	448	445	450	382
85°	99	159	156	155	153	108
90°	39	83	92	87	85	24
95°	40	60	67	58	53	33
105°	33	47	58	46	39	35
115°	17	32	52	44	38	18
125°	7	13	36	39	36	7
135°	3	2	18	28	29	2
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: P237796

CATALOG NUMBER: 4VRVT2-LD5-6-DR100-UNV-L850-CD1-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2221.4	2221.4	2221.4	2221.4	2221.4
2.5°	2219.3	2209.8	2198.1	2210.9	2204.5
5°	2201.3	2195.0	2187.5	2202.4	2199.2
7.5°	2200.3	2186.5	2175.9	2195.0	2193.9
10°	2184.4	2166.3	2161.0	2181.2	2174.8
12.5°	2147.3	2138.8	2139.8	2162.1	2147.3
15°	2103.8	2110.2	2110.2	2129.2	2126.1
17.5°	2075.2	2075.2	2076.2	2089.0	2083.7
20°	2034.9	2032.8	2029.6	2050.8	2044.5
22.5°	1975.6	1984.0	1980.9	2009.5	2005.2
25°	1918.3	1934.2	1927.9	1952.2	1951.2
27.5°	1866.4	1874.9	1873.8	1894.0	1891.8
30°	1794.3	1808.1	1812.3	1825.1	1815.5
32.5°	1724.4	1738.2	1749.8	1749.8	1744.5
35°	1654.4	1666.1	1674.6	1675.6	1674.6
37.5°	1586.6	1587.7	1596.1	1596.1	1605.7
40°	1496.5	1509.2	1512.4	1536.8	1561.2
42.5°	1419.1	1426.6	1434.0	1496.5	1546.3
45°	1333.3	1346.0	1356.6	1482.7	1551.6
47.5°	1249.6	1260.2	1298.3	1488.0	1550.6
50°	1162.7	1177.5	1262.3	1493.3	1507.1
52.5°	1076.8	1096.9	1249.6	1446.7	1419.1
55°	985.7	1016.4	1253.8	1351.3	1305.7
57.5°	901.9	946.4	1251.7	1226.2	1171.1
60°	820.3	883.9	1195.5	1084.2	1054.6
62.5°	739.8	830.9	1088.5	957.0	941.1
65°	661.3	783.2	952.8	840.5	840.5
67.5°	582.9	745.1	804.4	736.6	747.2
70°	507.7	699.5	670.9	632.7	646.5
72.5°	432.4	629.6	554.3	540.5	543.7
75°	358.2	532.0	448.3	445.1	450.4
77.5°	293.6	423.9	351.9	362.5	364.6
80°	223.6	319.0	273.4	283.0	278.7
82.5°	156.9	228.9	206.7	213.0	210.9
85°	98.6	159.0	155.8	154.7	152.6
87.5°	56.2	108.1	115.5	115.5	111.3
90°	39.2	82.7	92.2	86.9	84.8
92.5°	39.2	70.0	76.3	68.9	64.7
95°	40.3	60.4	66.8	58.3	53.0
97.5°	40.3	56.2	62.5	51.9	46.6
100°	39.2	51.9	60.4	47.7	42.4
102.5°	36.0	49.8	59.4	46.6	40.3
105°	32.9	46.6	58.3	45.6	39.2
107.5°	29.7	43.5	58.3	45.6	38.2
110°	25.4	40.3	57.2	45.6	38.2



TEST NUMBER: P237796

CATALOG NUMBER: 4VRVT2-LD5-6-DR100-UNV-L850-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.2	36.0	55.1	44.5	38.2
115°	17.0	31.8	51.9	44.5	38.2
117.5°	13.8	26.5	48.8	43.5	38.2
120°	11.7	21.2	45.6	42.4	37.1
122.5°	8.5	17.0	40.3	40.3	37.1
125°	7.4	12.7	36.0	39.2	36.0
127.5°	5.3	8.5	31.8	36.0	35.0
130°	4.2	5.3	26.5	33.9	33.9
132.5°	3.2	3.2	22.3	30.7	31.8
135°	3.2	2.1	18.0	27.6	28.6
137.5°	2.1	2.1	13.8	23.3	26.5
140°	2.1	2.1	10.6	20.1	22.3
142.5°	2.1	2.1	7.4	15.9	19.1
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)