

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: P237751

Luminaire Tested: **2VRVT2-LD5-5-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VRVT2-LD5-5-DR100-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% 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: 5456.9 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

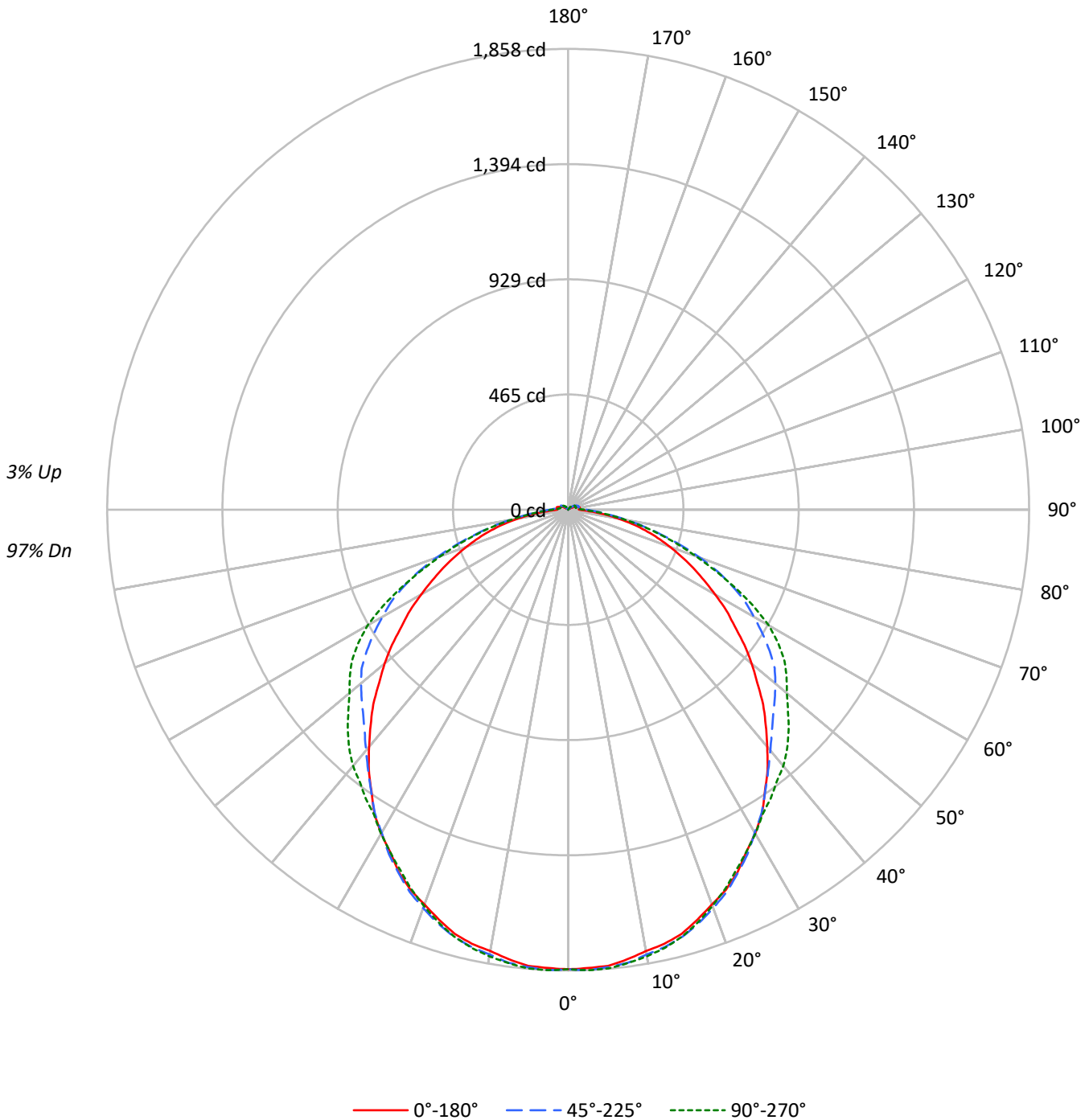
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	85	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	70	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
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	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19148	19148	19148
5°	19014	18723	18712
10°	18696	18172	18118
15°	18534	17679	17483
20°	18094	16988	16675
25°	17734	16224	15815
30°	17186	15349	15096
35°	16517	14497	14541
40°	15773	13728	14219
45°	15034	13207	13773
50°	14172	12994	13232
55°	13229	12588	12997
60°	12403	11860	12232
65°	11593	10992	10553
70°	10772	9458	8621
75°	9879	7423	6757
80°	8355	5325	4787
85°	6156	3586	3019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	3.2
10°-20°	500.4	9.2
20°-30°	742.8	13.6
30°-40°	874.9	16.0
40°-50°	908.2	16.6
50°-60°	852.4	15.6
60°-70°	685.3	12.6
70°-80°	406.7	7.5
80°-90°	149.1	2.7
90°-100°	55.8	1.0
100°-110°	42.5	0.8
110°-120°	32.5	0.6
120°-130°	19.6	0.4
130°-140°	9.2	0.2
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1418.9	26.0
0°-40°	2293.9	42.0
0°-60°	4054.4	74.3
0°-90°	5295.5	97.0
90°-120°	130.9	2.4
90°-150°	161.4	3.0
90°-180°	161.0	3.0
0°-180°	5456.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1853	1853	1853	1853	1853	
5°	1846	1846	1851	1857	1857	175
15°	1770	1771	1782	1782	1780	498
25°	1613	1613	1617	1612	1603	741
35°	1383	1393	1384	1404	1422	866
45°	1111	1109	1168	1246	1257	855
55°	818	847	990	1037	1065	736
65°	556	653	731	753	740	551
75°	321	408	389	387	380	338
85°	99	137	131	128	122	103
90°	44	74	74	69	64	26
95°	46	53	52	46	41	38
105°	43	43	44	37	32	45
115°	25	28	39	36	32	25
125°	11	12	25	28	28	10
135°	5	4	12	18	20	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1853.0	1853.0	1853.0	1853.0	1853.0
2.5°	1849.5	1853.0	1858.3	1858.3	1858.3
5°	1845.9	1845.9	1851.2	1856.6	1856.6
7.5°	1828.2	1831.7	1842.4	1842.4	1844.1
10°	1806.9	1817.5	1821.1	1828.2	1828.2
12.5°	1792.7	1796.2	1805.1	1808.6	1808.6
15°	1769.6	1771.4	1782.0	1782.0	1780.2
17.5°	1732.3	1737.6	1748.3	1748.3	1743.0
20°	1693.3	1705.7	1709.2	1703.9	1700.4
22.5°	1659.5	1663.1	1668.4	1659.5	1654.2
25°	1613.4	1613.4	1616.9	1611.6	1602.7
27.5°	1554.8	1567.3	1565.5	1561.9	1554.8
30°	1506.9	1514.0	1503.4	1505.1	1508.7
32.5°	1453.7	1457.2	1450.1	1453.7	1457.2
35°	1382.7	1393.3	1384.4	1404.0	1421.7
37.5°	1320.5	1327.6	1324.1	1363.1	1380.9
40°	1247.8	1254.9	1267.3	1324.1	1348.9
42.5°	1178.5	1180.3	1214.0	1286.8	1306.3
45°	1111.1	1109.3	1167.9	1246.0	1256.6
47.5°	1033.0	1038.3	1128.8	1196.3	1201.6
50°	965.6	974.4	1089.8	1134.2	1150.1
52.5°	894.6	908.8	1049.0	1082.7	1109.3
55°	818.2	846.6	990.4	1036.6	1064.9
57.5°	756.1	791.6	928.3	983.3	1004.6
60°	683.3	743.7	864.4	917.6	933.6
62.5°	617.7	697.5	804.0	839.5	841.3
65°	555.5	653.2	731.3	752.6	740.1
67.5°	493.4	603.5	651.4	653.2	640.7
70°	434.9	544.9	564.4	557.3	546.7
72.5°	378.1	477.5	475.7	466.8	463.3
75°	321.3	408.2	388.7	386.9	379.8
77.5°	262.7	335.5	310.6	308.8	303.5
80°	204.1	257.4	237.8	239.6	232.5
82.5°	147.3	195.2	177.5	179.3	172.2
85°	99.4	136.7	131.3	127.8	122.5
87.5°	58.6	95.8	95.8	94.1	87.0
90°	44.4	74.5	74.5	69.2	63.9
92.5°	42.6	60.3	60.3	55.0	49.7
95°	46.1	53.2	51.5	46.1	40.8
97.5°	47.9	49.7	47.9	40.8	37.3
100°	47.9	46.1	46.1	37.3	33.7
102.5°	46.1	44.4	44.4	37.3	31.9
105°	42.6	42.6	44.4	37.3	31.9
107.5°	39.0	40.8	42.6	37.3	31.9
110°	33.7	37.3	42.6	37.3	31.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.2	33.7	40.8	35.5	31.9
115°	24.8	28.4	39.0	35.5	31.9
117.5°	21.3	24.8	35.5	33.7	31.9
120°	17.7	19.5	33.7	33.7	30.2
122.5°	14.2	16.0	30.2	31.9	30.2
125°	10.6	12.4	24.8	28.4	28.4
127.5°	8.9	8.9	21.3	26.6	26.6
130°	7.1	7.1	17.7	24.8	24.8
132.5°	5.3	5.3	14.2	21.3	23.1
135°	5.3	3.5	12.4	17.7	19.5
137.5°	3.5	3.5	8.9	16.0	17.7
140°	3.5	3.5	7.1	12.4	14.2
142.5°	3.5	1.8	3.5	10.6	12.4
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)