

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: P237741

Luminaire Tested: **2VRVT2-LD5-5-DR-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237741
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: 2VRVT2-LD5-5-DR-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5175.0 lumens
Efficiency: N/A
Efficacy: 132.7 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

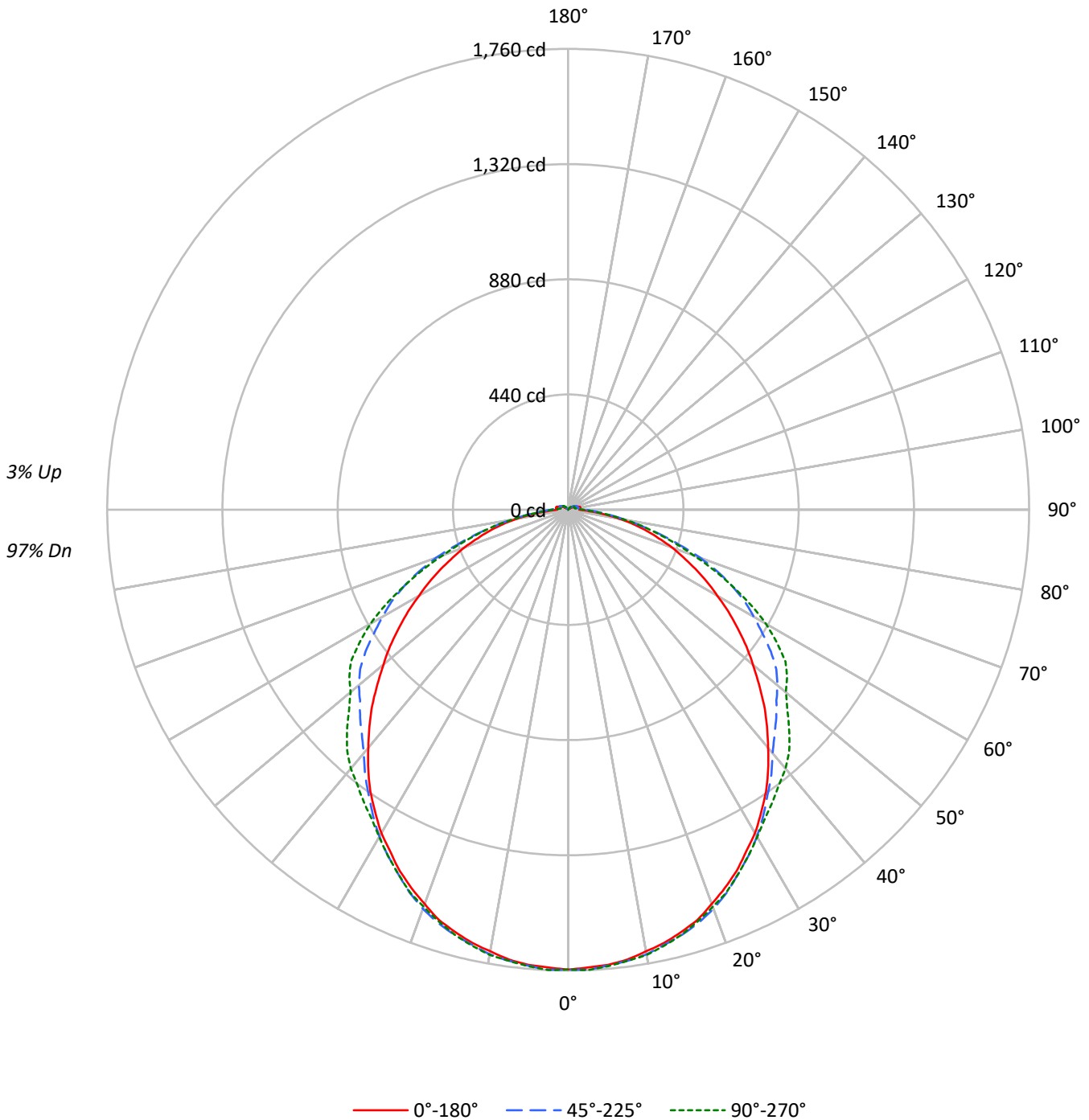
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18148	18148	18148
5°	17971	17680	17634
10°	17722	17208	17107
15°	17483	16677	16492
20°	17121	16125	15828
25°	16728	15405	15150
30°	16269	14718	14441
35°	15720	13903	13922
40°	15006	13150	13607
45°	14319	12704	13084
50°	13516	12437	12482
55°	12778	12002	12363
60°	11944	11233	11429
65°	11182	10393	9860
70°	10450	8978	8027
75°	9522	6970	6314
80°	8089	4875	4447
85°	5809	3248	2724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.2
10°-20°	473.2	9.1
20°-30°	706.1	13.6
30°-40°	835.7	16.1
40°-50°	867.8	16.8
50°-60°	812.5	15.7
60°-70°	650.5	12.6
70°-80°	384.0	7.4
80°-90°	138.3	2.7
90°-100°	50.0	1.0
100°-110°	36.7	0.7
110°-120°	27.8	0.5
120°-130°	16.7	0.3
130°-140°	8.0	0.2
140°-150°	1.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1345.3	26.0
0°-40°	2181.1	42.1
0°-60°	3861.4	74.6
0°-90°	5034.3	97.3
90°-120°	114.5	2.2
90°-150°	140.7	2.7
90°-180°	141.0	2.7
0°-180°	5175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1745	1746	1748	1753	1750	166
15°	1669	1669	1681	1688	1679	471
25°	1522	1532	1535	1539	1535	700
35°	1316	1323	1328	1348	1361	821
45°	1058	1065	1123	1190	1194	815
55°	790	814	944	984	1013	707
65°	536	633	692	703	692	532
75°	310	395	365	358	355	326
85°	94	129	119	116	110	99
90°	42	69	65	60	59	25
95°	44	49	45	38	37	37
105°	44	38	37	30	25	45
115°	25	27	34	28	25	26
125°	12	12	22	23	23	10
135°	5	3	10	15	17	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°	1756.3	1756.3	1756.3	1756.3	1756.3
2.5°	1749.6	1754.7	1758.0	1761.4	1759.7
5°	1744.6	1746.3	1748.0	1753.0	1749.6
7.5°	1732.9	1732.9	1737.9	1742.9	1737.9
10°	1712.8	1714.5	1724.5	1732.9	1726.2
12.5°	1694.4	1696.1	1701.1	1716.1	1704.4
15°	1669.3	1669.3	1681.0	1687.7	1679.3
17.5°	1642.5	1642.5	1654.2	1655.9	1647.5
20°	1602.3	1605.6	1622.4	1617.4	1614.0
22.5°	1563.8	1568.8	1582.2	1583.9	1580.5
25°	1521.9	1532.0	1535.3	1538.7	1535.3
27.5°	1471.7	1485.1	1490.1	1488.4	1490.1
30°	1426.5	1434.9	1441.6	1443.2	1443.2
32.5°	1371.2	1379.6	1386.3	1393.0	1398.0
35°	1316.0	1322.7	1327.7	1347.8	1361.2
37.5°	1254.0	1264.1	1274.1	1307.6	1322.7
40°	1187.1	1197.1	1213.9	1267.4	1290.9
42.5°	1123.4	1131.8	1165.3	1235.6	1249.0
45°	1058.2	1064.8	1123.4	1190.4	1193.8
47.5°	987.8	997.9	1078.2	1130.1	1135.2
50°	920.9	935.9	1043.1	1073.2	1084.9
52.5°	857.2	874.0	1001.2	1023.0	1053.1
55°	790.3	813.7	944.3	984.5	1012.9
57.5°	725.0	765.2	879.0	934.3	944.3
60°	658.0	718.3	818.7	870.6	872.3
62.5°	597.7	674.7	760.1	788.6	785.2
65°	535.8	632.9	691.5	703.2	691.5
67.5°	475.5	587.7	616.1	606.1	602.7
70°	421.9	529.1	535.8	514.0	509.0
72.5°	361.6	462.1	443.7	435.3	430.3
75°	309.7	395.1	365.0	358.3	354.9
77.5°	254.5	323.1	284.6	288.0	288.0
80°	197.6	251.1	217.7	221.0	216.0
82.5°	144.0	184.2	165.8	164.1	159.1
85°	93.8	128.9	118.9	115.5	110.5
87.5°	56.9	90.4	87.1	83.7	80.4
90°	41.9	68.6	65.3	60.3	58.6
92.5°	41.9	56.9	53.6	48.6	45.2
95°	43.5	48.6	45.2	38.5	36.8
97.5°	46.9	45.2	40.2	35.2	31.8
100°	46.9	41.9	38.5	31.8	28.5
102.5°	45.2	40.2	36.8	30.1	26.8
105°	43.5	38.5	36.8	30.1	25.1
107.5°	38.5	36.8	36.8	28.5	25.1
110°	35.2	33.5	35.2	28.5	25.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.1	30.1	35.2	28.5	25.1
115°	25.1	26.8	33.5	28.5	25.1
117.5°	21.8	21.8	30.1	26.8	25.1
120°	16.7	18.4	28.5	26.8	23.4
122.5°	13.4	15.1	25.1	25.1	23.4
125°	11.7	11.7	21.8	23.4	23.4
127.5°	8.4	8.4	18.4	21.8	21.8
130°	6.7	6.7	16.7	20.1	20.1
132.5°	6.7	5.0	13.4	18.4	18.4
135°	5.0	3.3	10.0	15.1	16.7
137.5°	3.3	3.3	8.4	13.4	15.1
140°	3.3	3.3	5.0	10.0	11.7
142.5°	3.3	1.7	3.3	8.4	10.0
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)