

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: P237747

Luminaire Tested: **2VRVT2-LD5-4-DR100-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237747
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-LD5-4-DR100-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% 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: 4054.0 lumens
Efficiency: N/A
Efficacy: 140.3 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

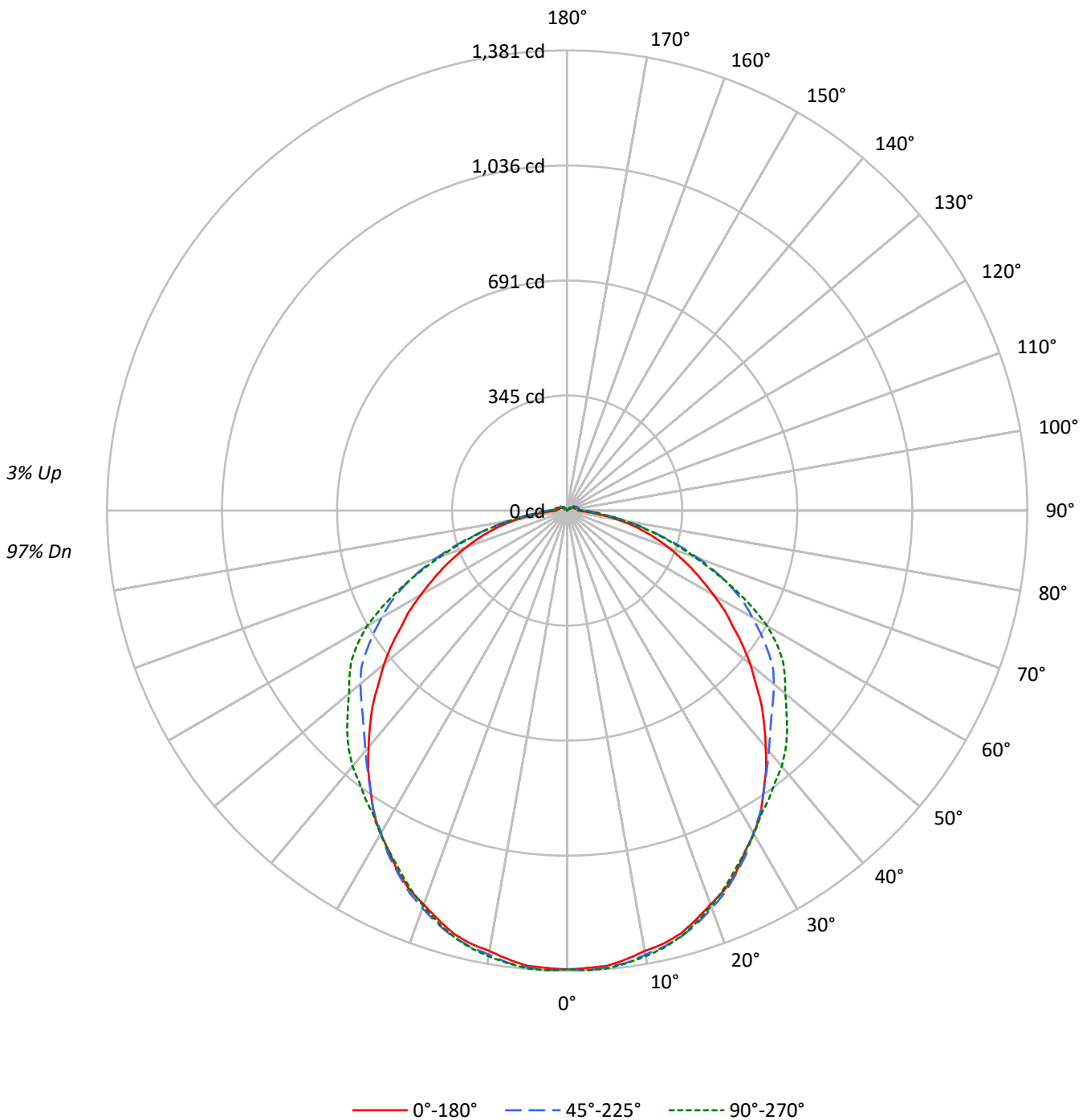
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14225	14225	14225
5°	14125	13910	13901
10°	13889	13500	13459
15°	13768	13134	12988
20°	13441	12621	12388
25°	13174	12053	11750
30°	12768	11402	11215
35°	12270	10770	10802
40°	11718	10199	10563
45°	11169	9811	10232
50°	10528	9653	9830
55°	9829	9352	9657
60°	9216	8812	9088
65°	8613	8166	7839
70°	8003	7026	6404
75°	7339	5515	5021
80°	6206	3957	3556
85°	4571	2666	2243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.2
10°-20°	371.8	9.2
20°-30°	551.9	13.6
30°-40°	650.0	16.0
40°-50°	674.7	16.6
50°-60°	633.2	15.6
60°-70°	509.1	12.6
70°-80°	302.1	7.5
80°-90°	110.8	2.7
90°-100°	41.5	1.0
100°-110°	31.6	0.8
110°-120°	24.2	0.6
120°-130°	14.6	0.4
130°-140°	6.9	0.2
140°-150°	1.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1054.1	26.0
0°-40°	1704.1	42.0
0°-60°	3012.1	74.3
0°-90°	3934.1	97.0
90°-120°	97.3	2.4
90°-150°	120.0	3.0
90°-180°	120.0	3.0
0°-180°	4054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1371	1371	1375	1379	1379	130
15°	1315	1316	1324	1324	1322	370
25°	1199	1199	1201	1197	1191	551
35°	1027	1035	1028	1043	1056	643
45°	825	824	868	926	934	635
55°	608	629	736	770	791	547
65°	413	485	543	559	550	409
75°	239	303	289	288	282	251
85°	74	102	98	95	91	76
90°	33	55	55	51	48	19
95°	34	40	38	34	30	28
105°	32	32	33	28	24	33
115°	18	21	29	26	24	19
125°	8	9	18	21	21	8
135°	4	3	9	13	14	3
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°	1376.6	1376.6	1376.6	1376.6	1376.6
2.5°	1374.0	1376.6	1380.6	1380.6	1380.6
5°	1371.3	1371.3	1375.3	1379.2	1379.2
7.5°	1358.1	1360.8	1368.7	1368.7	1370.0
10°	1342.3	1350.2	1352.9	1358.1	1358.1
12.5°	1331.8	1334.4	1341.0	1343.6	1343.6
15°	1314.6	1315.9	1323.9	1323.9	1322.5
17.5°	1286.9	1290.9	1298.8	1298.8	1294.8
20°	1257.9	1267.2	1269.8	1265.8	1263.2
22.5°	1232.9	1235.5	1239.5	1232.9	1228.9
25°	1198.6	1198.6	1201.2	1197.3	1190.7
27.5°	1155.1	1164.3	1163.0	1160.4	1155.1
30°	1119.5	1124.8	1116.8	1118.2	1120.8
32.5°	1079.9	1082.6	1077.3	1079.9	1082.6
35°	1027.2	1035.1	1028.5	1043.0	1056.2
37.5°	981.0	986.3	983.7	1012.7	1025.9
40°	927.0	932.2	941.5	983.7	1002.1
42.5°	875.5	876.9	901.9	956.0	970.5
45°	825.4	824.1	867.6	925.6	933.6
47.5°	767.4	771.4	838.6	888.7	892.7
50°	717.3	723.9	809.6	842.6	854.4
52.5°	664.6	675.1	779.3	804.3	824.1
55°	607.9	629.0	735.8	770.1	791.2
57.5°	561.7	588.1	689.6	730.5	746.3
60°	507.7	552.5	642.2	681.7	693.6
62.5°	458.9	518.2	597.3	623.7	625.0
65°	412.7	485.2	543.3	559.1	549.8
67.5°	366.6	448.3	483.9	485.2	476.0
70°	323.1	404.8	419.3	414.0	406.1
72.5°	280.9	354.7	353.4	346.8	344.2
75°	238.7	303.3	288.8	287.5	282.2
77.5°	195.2	249.2	230.8	229.4	225.5
80°	151.6	191.2	176.7	178.0	172.7
82.5°	109.4	145.0	131.9	133.2	127.9
85°	73.8	101.5	97.6	94.9	91.0
87.5°	43.5	71.2	71.2	69.9	64.6
90°	33.0	55.4	55.4	51.4	47.5
92.5°	31.6	44.8	44.8	40.9	36.9
95°	34.3	39.6	38.2	34.3	30.3
97.5°	35.6	36.9	35.6	30.3	27.7
100°	35.6	34.3	34.3	27.7	25.1
102.5°	34.3	33.0	33.0	27.7	23.7
105°	31.6	31.6	33.0	27.7	23.7
107.5°	29.0	30.3	31.6	27.7	23.7
110°	25.1	27.7	31.6	27.7	23.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.4	25.1	30.3	26.4	23.7
115°	18.5	21.1	29.0	26.4	23.7
117.5°	15.8	18.5	26.4	25.1	23.7
120°	13.2	14.5	25.1	25.1	22.4
122.5°	10.5	11.9	22.4	23.7	22.4
125°	7.9	9.2	18.5	21.1	21.1
127.5°	6.6	6.6	15.8	19.8	19.8
130°	5.3	5.3	13.2	18.5	18.5
132.5°	4.0	4.0	10.5	15.8	17.1
135°	4.0	2.6	9.2	13.2	14.5
137.5°	2.6	2.6	6.6	11.9	13.2
140°	2.6	2.6	5.3	9.2	10.5
142.5°	2.6	1.3	2.6	7.9	9.2
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)