

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: P237792

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237792
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-LD5-4-DR100-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.0 lumens
Efficiency: N/A
Efficacy: 138.6 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

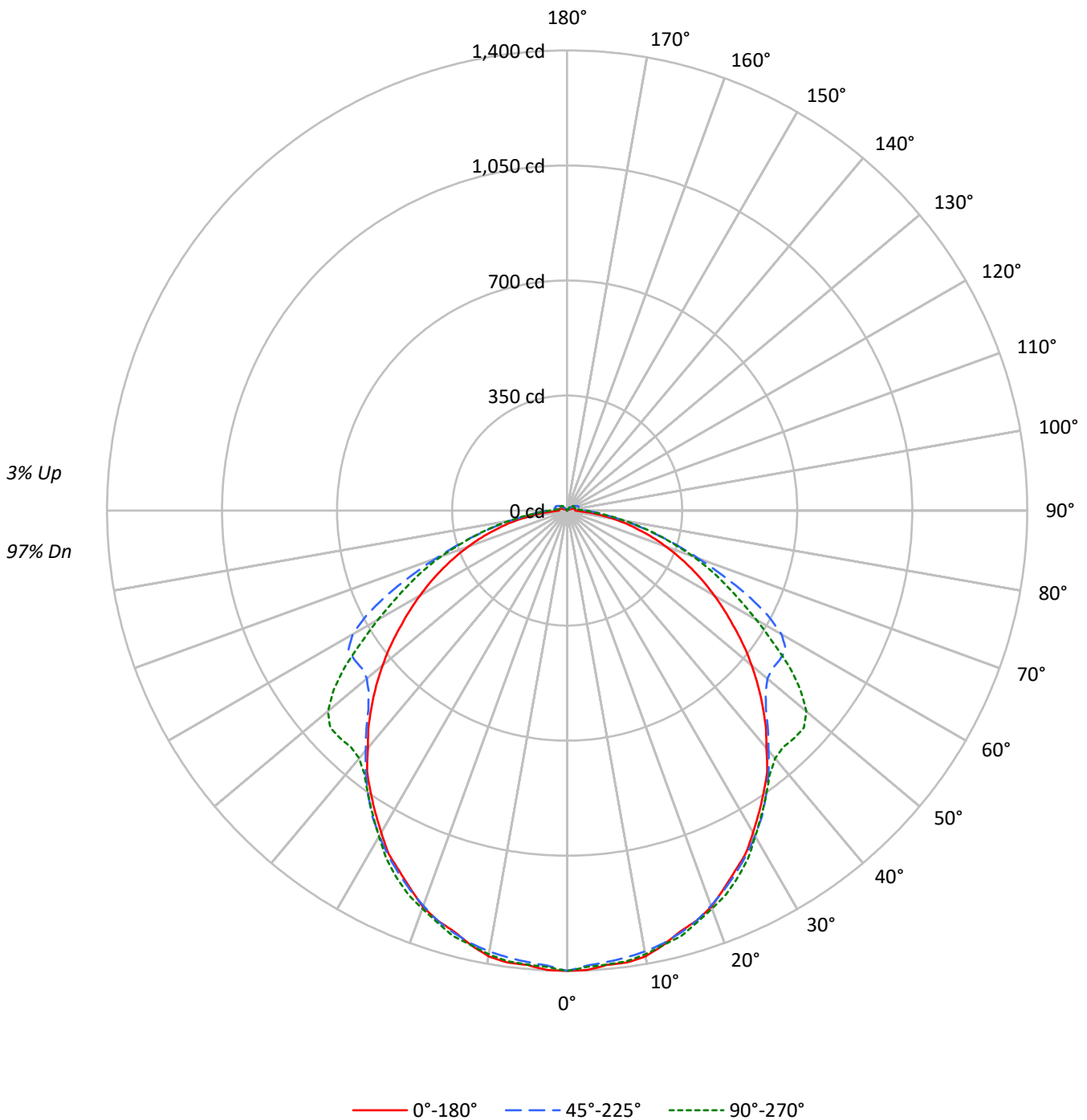
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7235	7235	7235
5°	7172	6990	6986
10°	7173	6829	6793
15°	7019	6645	6581
20°	6951	6418	6319
25°	6767	6169	6069
30°	6596	5914	5726
35°	6399	5619	5398
40°	6156	5264	5187
45°	5905	4944	5360
50°	5623	4865	5465
55°	5294	5170	5023
60°	4997	5344	4355
65°	4694	4688	3777
70°	4355	3703	3213
75°	3922	2842	2526
80°	3420	2054	1809
85°	2526	1449	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.2
10°-20°	376.2	9.1
20°-30°	562.3	13.6
30°-40°	658.5	15.9
40°-50°	688.0	16.6
50°-60°	668.4	16.1
60°-70°	520.0	12.5
70°-80°	306.0	7.4
80°-90°	110.5	2.7
90°-100°	42.0	1.0
100°-110°	31.2	0.8
110°-120°	24.3	0.6
120°-130°	15.5	0.4
130°-140°	7.9	0.2
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1070.2	25.8
0°-40°	1728.7	41.7
0°-60°	3085.1	74.4
0°-90°	4021.6	97.0
90°-120°	97.5	2.4
90°-150°	122.4	3.0
90°-180°	122.0	2.9
0°-180°	4144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1388	1384	1379	1388	1386	132
15°	1326	1330	1330	1342	1340	376
25°	1209	1219	1215	1231	1230	558
35°	1043	1050	1056	1056	1056	652
45°	840	848	855	935	978	648
55°	621	641	790	852	823	557
65°	417	494	601	530	530	413
75°	226	335	283	281	284	241
85°	62	100	98	98	96	68
90°	25	52	58	55	53	15
95°	25	38	42	37	33	21
105°	21	29	37	29	25	22
115°	11	20	33	28	24	11
125°	5	8	23	25	23	4
135°	2	1	11	17	18	1
145°	0	0	0	0	0	0
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°	1400.3	1400.3	1400.3	1400.3	1400.3
2.5°	1399.0	1393.0	1385.6	1393.6	1389.6
5°	1387.6	1383.6	1378.9	1388.3	1386.3
7.5°	1387.0	1378.3	1371.6	1383.6	1382.9
10°	1376.9	1365.6	1362.2	1374.9	1370.9
12.5°	1353.6	1348.2	1348.9	1362.9	1353.6
15°	1326.2	1330.2	1330.2	1342.2	1340.2
17.5°	1308.1	1308.1	1308.8	1316.8	1313.5
20°	1282.7	1281.4	1279.4	1292.8	1288.7
22.5°	1245.3	1250.7	1248.7	1266.7	1264.0
25°	1209.2	1219.3	1215.3	1230.6	1230.0
27.5°	1176.5	1181.9	1181.2	1193.9	1192.5
30°	1131.1	1139.8	1142.4	1150.5	1144.4
32.5°	1087.0	1095.7	1103.0	1103.0	1099.7
35°	1042.9	1050.2	1055.6	1056.3	1055.6
37.5°	1000.1	1000.8	1006.1	1006.1	1012.2
40°	943.3	951.4	953.4	968.7	984.1
42.5°	894.6	899.2	903.9	943.3	974.7
45°	840.5	848.5	855.2	934.7	978.1
47.5°	787.7	794.4	818.4	938.0	977.4
50°	732.9	742.2	795.7	941.3	950.0
52.5°	678.8	691.5	787.7	911.9	894.6
55°	621.3	640.7	790.4	851.8	823.1
57.5°	568.5	596.6	789.0	773.0	738.2
60°	517.1	557.2	753.6	683.5	664.7
62.5°	466.3	523.8	686.1	603.3	593.3
65°	416.9	493.7	600.6	529.8	529.8
67.5°	367.4	469.7	507.1	464.3	471.0
70°	320.0	440.9	422.9	398.8	407.5
72.5°	272.6	396.8	349.4	340.7	342.7
75°	225.8	335.4	282.6	280.6	283.9
77.5°	185.1	267.2	221.8	228.5	229.8
80°	141.0	201.1	172.4	178.4	175.7
82.5°	98.9	144.3	130.3	134.3	132.9
85°	62.1	100.2	98.2	97.5	96.2
87.5°	35.4	68.1	72.8	72.8	70.1
90°	24.7	52.1	58.1	54.8	53.4
92.5°	24.7	44.1	48.1	43.4	40.8
95°	25.4	38.1	42.1	36.7	33.4
97.5°	25.4	35.4	39.4	32.7	29.4
100°	24.7	32.7	38.1	30.1	26.7
102.5°	22.7	31.4	37.4	29.4	25.4
105°	20.7	29.4	36.7	28.7	24.7
107.5°	18.7	27.4	36.7	28.7	24.1
110°	16.0	25.4	36.1	28.7	24.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.4	22.7	34.7	28.1	24.1
115°	10.7	20.0	32.7	28.1	24.1
117.5°	8.7	16.7	30.7	27.4	24.1
120°	7.3	13.4	28.7	26.7	23.4
122.5°	5.3	10.7	25.4	25.4	23.4
125°	4.7	8.0	22.7	24.7	22.7
127.5°	3.3	5.3	20.0	22.7	22.0
130°	2.7	3.3	16.7	21.4	21.4
132.5°	2.0	2.0	14.0	19.4	20.0
135°	2.0	1.3	11.4	17.4	18.0
137.5°	1.3	1.3	8.7	14.7	16.7
140°	1.3	1.3	6.7	12.7	14.0
142.5°	1.3	1.3	4.7	10.0	12.0
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)