

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: P237757

Luminaire Tested: **2VRVT2-LD5-4-FR50-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VRVT2-LD5-4-FR50-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
FROSTED LENS/15% 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: 4252.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

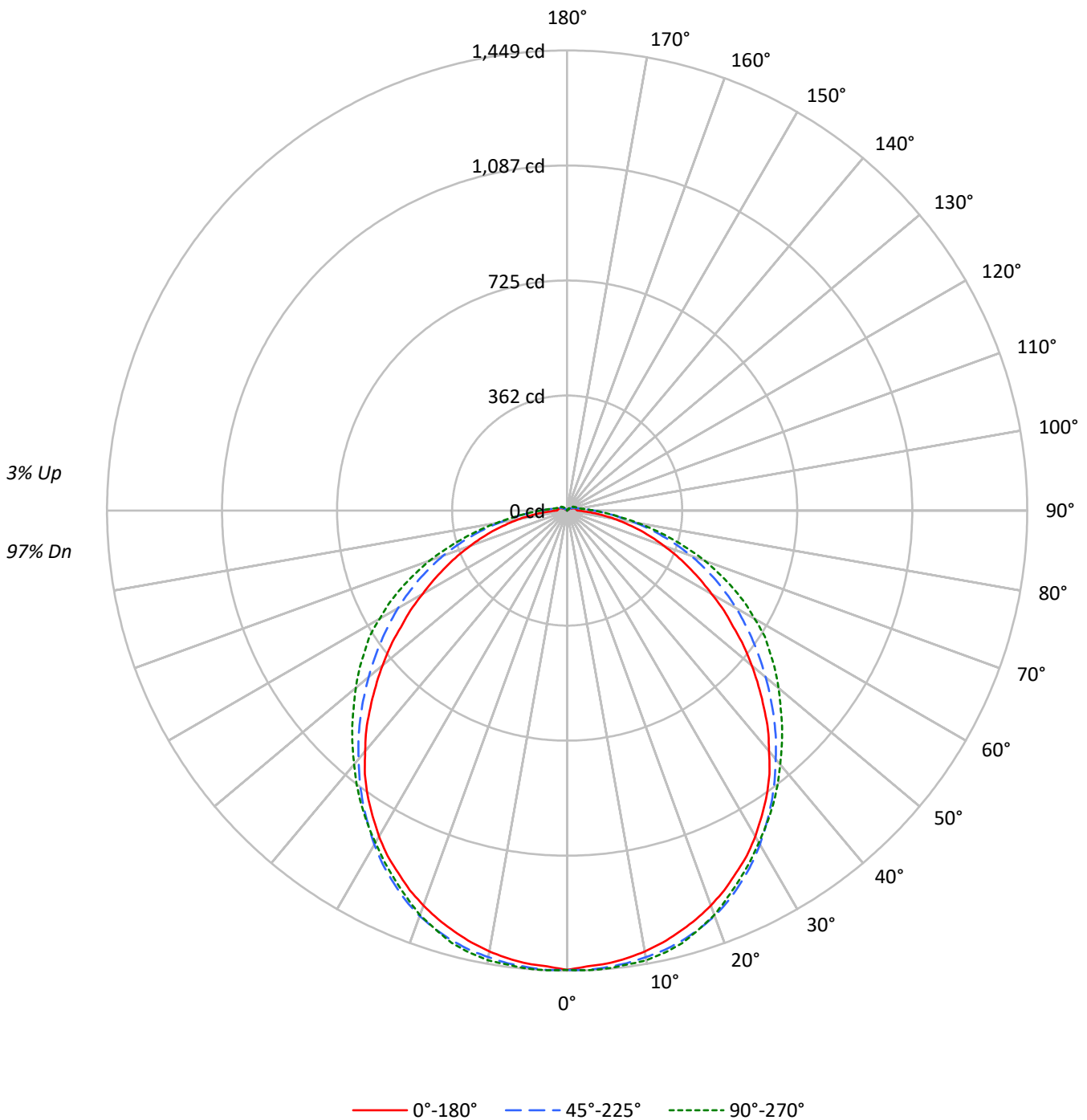
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	87	84	82	87	84	82	80		
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	76	72	69	76	72	69	66		
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	67	62	58	56		
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	60	54	50	60	54	50	47		
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	54	48	43	54	48	43	41		
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	49	43	38	49	43	38	49	43	38	36		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	44	38	34	32		
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	41	35	30	41	35	30	28		
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	38	32	27	38	32	27	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	35	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14944	14944	14944
5°	14753	14599	14590
10°	14588	14250	14249
15°	14372	13904	13832
20°	14140	13499	13292
25°	13838	12983	12657
30°	13514	12397	12081
35°	13086	11749	11561
40°	12505	11064	11003
45°	11855	10413	10491
50°	11135	9729	9999
55°	10325	9075	9516
60°	9537	8436	8934
65°	8807	7750	8209
70°	8030	6954	7272
75°	7216	5950	6017
80°	6234	4819	4661
85°	4930	3739	3409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	3.2
10°-20°	393.7	9.3
20°-30°	591.2	13.9
30°-40°	700.4	16.5
40°-50°	711.1	16.7
50°-60°	638.4	15.0
60°-70°	501.4	11.8
70°-80°	317.7	7.5
80°-90°	140.5	3.3
90°-100°	54.0	1.3
100°-110°	30.2	0.7
110°-120°	19.5	0.5
120°-130°	11.0	0.3
130°-140°	4.7	0.1
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1122.1	26.4
0°-40°	1822.4	42.9
0°-60°	3171.9	74.6
0°-90°	4131.4	97.2
90°-120°	103.7	2.4
90°-150°	120.6	2.8
90°-180°	121.0	2.8
0°-180°	4252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1432	1438	1443	1448	1448	136
15°	1372	1383	1402	1410	1408	387
25°	1259	1281	1294	1287	1283	580
35°	1096	1119	1122	1126	1130	684
45°	876	903	921	946	957	676
55°	639	666	714	763	780	574
65°	422	446	516	563	576	419
75°	235	261	312	338	338	249
85°	80	108	137	142	138	80
90°	34	60	84	87	85	20
95°	29	36	53	56	54	24
105°	25	21	29	34	32	27
115°	15	13	20	25	26	16
125°	7	4	11	18	20	7
135°	3	3	4	10	11	3
145°	1	1	0	3	4	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°	1446.2	1446.2	1446.2	1446.2	1446.2
2.5°	1436.4	1440.6	1447.6	1449.0	1449.0
5°	1432.2	1437.8	1443.4	1447.6	1447.6
7.5°	1422.5	1428.1	1437.8	1442.0	1442.0
10°	1409.9	1416.9	1428.1	1436.4	1437.8
12.5°	1393.1	1401.5	1416.9	1425.3	1425.3
15°	1372.2	1383.3	1401.5	1409.9	1408.5
17.5°	1349.8	1362.4	1381.9	1386.1	1381.9
20°	1323.3	1338.6	1358.2	1361.0	1355.4
22.5°	1293.9	1312.1	1328.8	1324.7	1319.1
25°	1259.0	1281.3	1293.9	1286.9	1282.7
27.5°	1225.4	1246.4	1256.2	1247.8	1246.4
30°	1184.9	1208.7	1214.3	1208.7	1207.3
32.5°	1140.2	1168.2	1168.2	1168.2	1169.6
35°	1095.5	1119.2	1122.0	1126.2	1130.4
37.5°	1046.6	1070.3	1073.1	1084.3	1088.5
40°	989.3	1015.8	1021.4	1038.2	1043.8
42.5°	936.2	960.0	972.5	993.5	1000.5
45°	876.1	902.7	920.8	946.0	957.2
47.5°	817.4	844.0	867.7	899.9	911.0
50°	758.7	785.3	816.0	853.8	869.1
52.5°	701.5	723.8	764.3	809.0	825.8
55°	638.6	666.5	714.0	762.9	779.7
57.5°	585.5	607.8	663.7	716.8	737.8
60°	525.4	550.5	614.8	667.9	681.9
62.5°	473.7	498.8	564.5	617.6	631.6
65°	422.0	445.7	515.6	563.1	575.7
67.5°	373.1	399.6	463.9	511.4	517.0
70°	324.2	352.1	415.0	455.5	461.1
72.5°	279.5	306.0	363.3	396.8	398.2
75°	234.7	261.3	311.6	338.2	338.2
77.5°	191.4	219.4	262.7	283.7	280.9
80°	152.3	177.5	215.2	226.4	226.4
82.5°	113.2	139.7	171.9	183.0	177.5
85°	79.6	107.6	136.9	142.5	138.3
87.5°	51.7	81.0	106.2	110.4	107.6
90°	33.5	60.1	83.8	86.6	85.2
92.5°	30.7	46.1	65.7	68.5	67.1
95°	29.3	36.3	53.1	55.9	54.5
97.5°	29.3	30.7	44.7	47.5	46.1
100°	27.9	26.5	37.7	40.5	39.1
102.5°	27.9	23.8	33.5	36.3	34.9
105°	25.2	21.0	29.3	33.5	32.1
107.5°	23.8	18.2	26.5	30.7	30.7
110°	21.0	15.4	23.8	29.3	29.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.2	14.0	22.4	27.9	27.9
115°	15.4	12.6	19.6	25.2	26.5
117.5°	12.6	9.8	16.8	23.8	25.2
120°	11.2	8.4	15.4	22.4	23.8
122.5°	9.8	7.0	14.0	19.6	22.4
125°	7.0	4.2	11.2	18.2	19.6
127.5°	7.0	4.2	9.8	15.4	18.2
130°	5.6	4.2	8.4	14.0	15.4
132.5°	4.2	2.8	5.6	11.2	14.0
135°	2.8	2.8	4.2	9.8	11.2
137.5°	2.8	1.4	2.8	8.4	9.8
140°	1.4	1.4	1.4	5.6	7.0
142.5°	1.4	1.4	0.0	4.2	5.6
145°	1.4	1.4	0.0	2.8	4.2
147.5°	1.4	1.4	0.0	1.4	2.8
150°	1.4	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)