

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: P237805

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT2-LD5-4-FR50-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4346.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

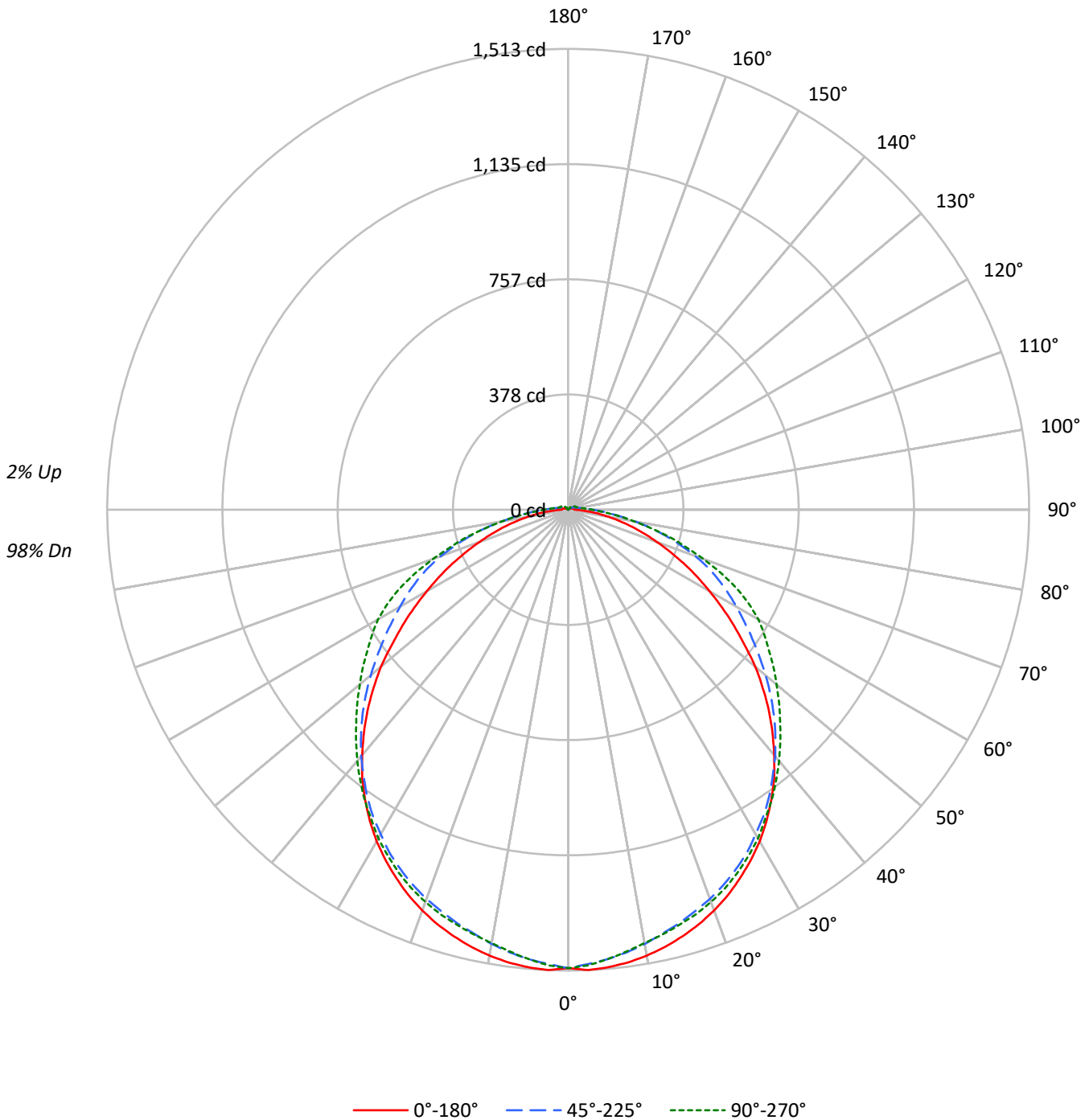
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	105	105	105	100	100	100	98
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	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7776	7776	7776
5°	7793	7511	7466
10°	7745	7257	7159
15°	7673	7023	6928
20°	7588	6821	6720
25°	7471	6611	6489
30°	7331	6369	6233
35°	7131	6123	5954
40°	6863	5835	5674
45°	6543	5519	5391
50°	6151	5170	5134
55°	5661	4823	4906
60°	5181	4520	4723
65°	4713	4257	4342
70°	4203	3876	3708
75°	3764	3325	3050
80°	3247	2650	2261
85°	2709	1997	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.2
10°-20°	400.7	9.2
20°-30°	604.6	13.9
30°-40°	721.5	16.6
40°-50°	735.7	16.9
50°-60°	658.6	15.2
60°-70°	520.6	12.0
70°-80°	322.1	7.4
80°-90°	135.5	3.1
90°-100°	48.3	1.1
100°-110°	25.6	0.6
110°-120°	16.8	0.4
120°-130°	9.7	0.2
130°-140°	4.3	0.1
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1146.5	26.4
0°-40°	1868.0	43.0
0°-60°	3262.2	75.1
0°-90°	4240.5	97.6
90°-120°	90.8	2.1
90°-150°	105.5	2.4
90°-180°	105.0	2.4
0°-180°	4346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1508	1496	1482	1487	1482	143
15°	1450	1426	1406	1414	1411	409
25°	1335	1307	1302	1317	1315	615
35°	1162	1141	1150	1164	1164	726
45°	931	924	955	979	984	717
55°	664	679	737	790	804	595
65°	419	448	545	601	609	416
75°	217	262	331	344	343	231
85°	67	104	135	136	130	69
90°	22	54	81	81	79	14
95°	20	30	50	52	50	16
105°	16	15	27	30	30	17
115°	8	8	18	25	25	9
125°	4	2	11	18	20	3
135°	1	1	4	10	12	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°	1505.0	1505.0	1505.0	1505.0	1505.0
2.5°	1512.8	1504.3	1493.0	1500.8	1497.2
5°	1507.8	1496.5	1481.6	1486.6	1481.6
7.5°	1499.4	1485.2	1466.1	1468.2	1463.2
10°	1486.6	1469.6	1447.6	1449.8	1444.8
12.5°	1470.3	1449.8	1425.7	1433.5	1428.5
15°	1449.8	1426.4	1405.9	1414.4	1410.8
17.5°	1427.1	1401.6	1382.5	1395.9	1393.1
20°	1400.2	1371.9	1359.8	1372.6	1370.5
22.5°	1369.7	1339.3	1332.9	1347.1	1345.0
25°	1335.0	1306.7	1302.5	1316.6	1315.2
27.5°	1297.5	1267.8	1269.9	1281.9	1281.2
30°	1257.1	1230.9	1230.2	1246.5	1245.8
32.5°	1211.8	1185.6	1192.7	1205.4	1203.3
35°	1162.2	1141.0	1150.2	1164.4	1164.4
37.5°	1110.5	1090.7	1102.7	1117.6	1121.1
40°	1051.7	1036.9	1056.7	1074.4	1076.5
42.5°	992.2	982.3	1006.4	1026.2	1030.5
45°	931.3	924.3	954.7	978.8	983.7
47.5°	866.2	866.2	900.9	929.9	939.1
50°	801.7	801.7	845.6	881.8	892.4
52.5°	730.2	740.1	790.4	833.6	849.2
55°	664.3	679.2	737.3	789.7	803.9
57.5°	599.2	617.6	685.6	746.5	762.8
60°	536.1	560.9	637.4	702.6	721.0
62.5°	476.6	502.9	591.4	655.1	667.9
65°	418.6	447.6	545.3	601.3	609.1
67.5°	362.6	400.2	497.2	539.7	542.5
70°	308.8	352.7	442.7	474.5	470.3
72.5°	262.1	306.0	386.7	408.7	401.6
75°	216.7	262.1	330.7	343.5	342.8
77.5°	174.2	218.8	276.2	283.3	276.2
80°	133.9	178.5	222.4	225.9	219.6
82.5°	99.9	138.1	174.9	177.1	173.5
85°	66.6	104.1	135.3	136.0	130.3
87.5°	40.4	75.8	103.4	104.8	100.6
90°	22.0	54.5	80.7	81.4	78.6
92.5°	20.5	39.7	62.3	63.7	62.3
95°	19.8	30.5	50.3	51.7	50.3
97.5°	19.8	24.8	41.1	43.2	41.8
100°	18.4	20.5	34.7	36.8	36.1
102.5°	17.7	17.0	30.5	33.3	31.9
105°	15.6	14.9	26.9	30.5	29.7
107.5°	14.2	12.7	24.8	28.3	27.6
110°	12.0	11.3	22.7	26.9	26.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.9	9.2	20.5	25.5	25.5
115°	8.5	7.8	18.4	24.8	24.8
117.5°	7.1	6.4	17.0	23.4	24.1
120°	5.7	5.0	14.9	21.2	22.7
122.5°	5.0	3.5	12.7	19.8	21.2
125°	3.5	2.1	11.3	17.7	19.8
127.5°	2.8	2.1	9.2	15.6	17.7
130°	2.1	1.4	7.8	14.2	15.6
132.5°	2.1	1.4	5.7	12.0	13.5
135°	1.4	1.4	4.2	9.9	12.0
137.5°	1.4	0.7	2.8	7.8	9.9
140°	1.4	0.7	1.4	6.4	7.8
142.5°	0.7	0.7	0.7	4.2	5.7
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)