

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: P237787

Luminaire Tested: **8VRVT2-LD5-9-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VRVT2-LD5-9-DR-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9597.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

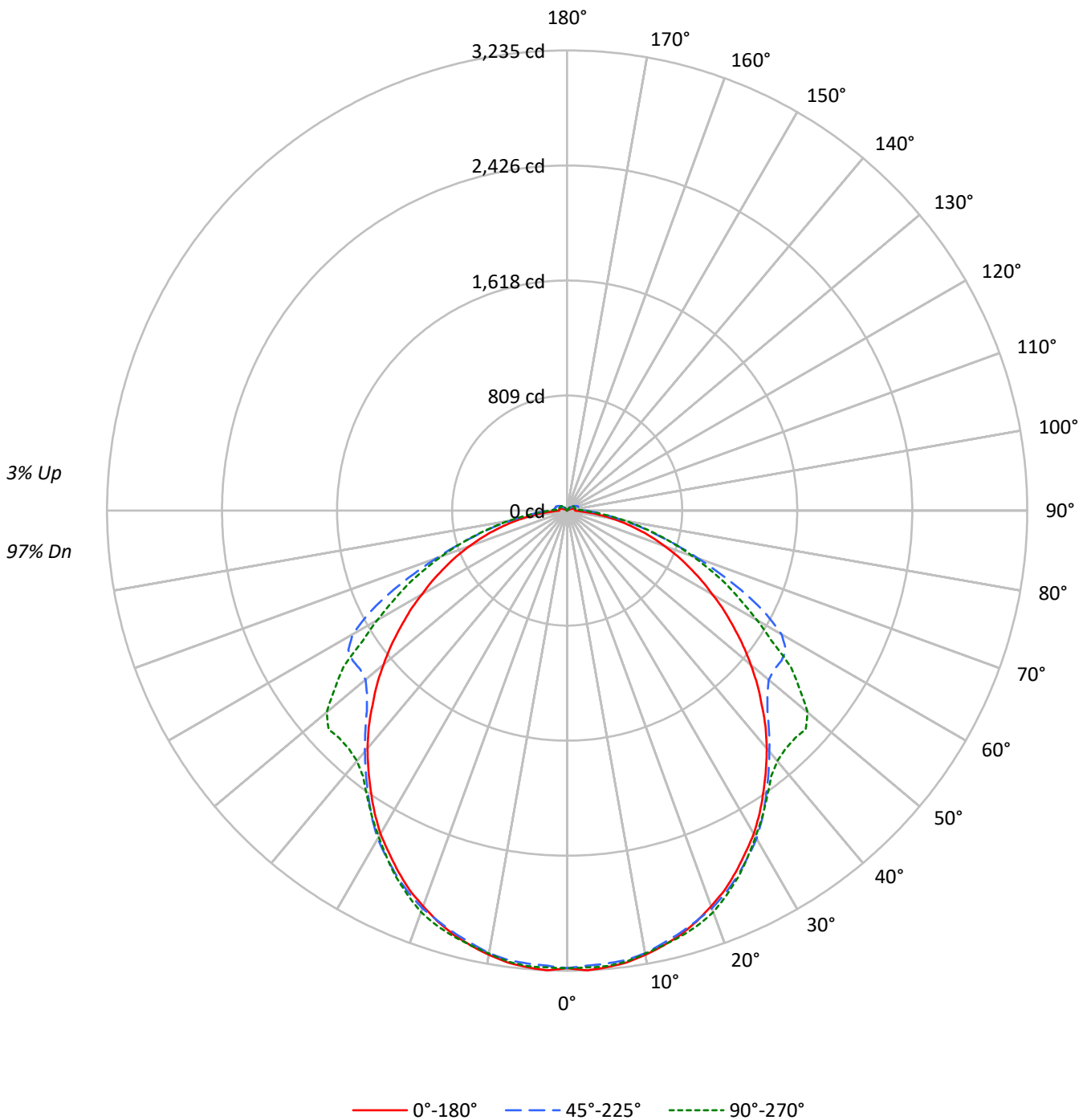
Input Watts (W): 65.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	96	92	95	92	89	91	88	86	87	85	83	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	51	62	56	50	59	54	49	47
5	75	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°	8310	8310	8310
5°	8343	8112	8101
10°	8291	7938	7835
15°	8211	7702	7604
20°	8077	7497	7366
25°	7920	7235	7018
30°	7736	6944	6625
35°	7485	6547	6268
40°	7242	6165	6056
45°	6934	5822	6204
50°	6614	5731	6347
55°	6259	6107	5864
60°	5893	6277	5053
65°	5564	5492	4427
70°	5222	4370	3700
75°	4805	3352	2941
80°	4262	2450	2144
85°	3513	1762	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	3.2
10°-20°	872.1	9.1
20°-30°	1303.6	13.6
30°-40°	1527.2	15.9
40°-50°	1598.2	16.7
50°-60°	1545.8	16.1
60°-70°	1201.7	12.5
70°-80°	708.9	7.4
80°-90°	255.5	2.7
90°-100°	95.2	1.0
100°-110°	71.4	0.7
110°-120°	55.2	0.6
120°-130°	35.2	0.4
130°-140°	18.1	0.2
140°-150°	3.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2481.0	25.9
0°-40°	4008.2	41.8
0°-60°	7152.2	74.5
0°-90°	9318.2	97.1
90°-120°	221.9	2.3
90°-150°	278.7	2.9
90°-180°	279.0	2.9
0°-180°	9597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3217	3217	3217	3217	3217	
5°	3223	3207	3196	3224	3215	306
15°	3086	3096	3072	3110	3097	869
25°	2805	2817	2834	2856	2845	1291
35°	2407	2438	2439	2453	2452	1506
45°	1936	1970	1992	2182	2264	1495
55°	1429	1479	1840	1962	1922	1281
65°	949	1141	1380	1233	1242	944
75°	517	773	649	657	661	550
85°	146	229	229	228	222	156
90°	56	119	132	125	118	34
95°	57	87	96	84	74	46
105°	46	68	84	67	57	48
115°	23	45	74	64	56	25
125°	9	17	51	56	53	9
135°	5	3	26	40	42	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°	3216.6	3216.6	3216.6	3216.6	3216.6
2.5°	3235.2	3219.7	3202.6	3222.8	3215.0
5°	3222.8	3207.3	3196.4	3224.3	3215.0
7.5°	3204.2	3193.3	3187.1	3210.4	3198.0
10°	3171.7	3167.0	3159.3	3182.5	3162.4
12.5°	3131.4	3136.0	3115.9	3142.2	3129.8
15°	3086.5	3095.8	3072.5	3109.7	3097.3
17.5°	3027.6	3038.5	3024.5	3071.0	3057.1
20°	2959.5	2965.7	2975.0	3007.5	3004.4
22.5°	2889.8	2894.4	2909.9	2934.7	2927.0
25°	2804.6	2817.0	2834.0	2855.7	2844.9
27.5°	2713.3	2731.8	2748.9	2765.9	2747.3
30°	2623.4	2632.7	2663.7	2662.1	2648.2
32.5°	2519.7	2542.9	2555.3	2550.6	2552.2
35°	2406.6	2437.6	2439.1	2453.1	2451.5
37.5°	2295.1	2329.2	2324.5	2350.9	2355.5
40°	2183.6	2206.8	2211.5	2257.9	2298.2
42.5°	2064.4	2087.6	2100.0	2197.5	2271.9
45°	1935.8	1969.9	1991.6	2182.1	2264.1
47.5°	1815.0	1846.0	1907.9	2182.1	2275.0
50°	1684.9	1722.1	1850.6	2177.4	2206.8
52.5°	1559.5	1596.7	1833.6	2110.8	2059.7
55°	1429.4	1479.0	1839.8	1962.2	1921.9
57.5°	1308.6	1378.3	1824.3	1784.1	1703.5
60°	1180.1	1282.3	1740.7	1585.8	1542.5
62.5°	1067.0	1204.9	1579.6	1396.9	1381.4
65°	949.3	1141.4	1379.9	1232.7	1242.0
67.5°	842.5	1084.1	1170.8	1082.5	1088.7
70°	729.4	1015.9	975.7	940.0	938.5
72.5°	624.1	918.4	805.3	794.5	799.1
75°	517.3	772.8	648.9	656.6	661.3
77.5°	419.7	624.1	520.3	529.6	529.6
80°	319.0	466.1	398.0	415.0	416.6
82.5°	229.2	333.0	303.5	312.8	305.1
85°	145.6	229.2	229.2	227.7	221.5
87.5°	82.1	158.0	167.3	165.7	158.0
90°	55.8	119.2	131.6	125.4	117.7
92.5°	55.8	100.7	110.0	99.1	91.4
95°	57.3	86.7	96.0	83.6	74.3
97.5°	55.8	80.5	89.8	74.3	65.0
100°	54.2	74.3	86.7	69.7	60.4
102.5°	51.1	71.2	85.2	66.6	57.3
105°	46.5	68.1	83.6	66.6	57.3
107.5°	40.3	63.5	83.6	66.6	57.3
110°	35.6	57.3	82.1	65.0	55.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.4	51.1	79.0	65.0	55.8
115°	23.2	44.9	74.3	63.5	55.8
117.5°	20.1	37.2	69.7	63.5	55.8
120°	15.5	31.0	65.0	60.4	54.2
122.5°	12.4	23.2	58.8	58.8	52.7
125°	9.3	17.0	51.1	55.8	52.7
127.5°	7.7	12.4	44.9	52.7	51.1
130°	6.2	7.7	38.7	49.6	48.0
132.5°	4.6	4.6	32.5	44.9	44.9
135°	4.6	3.1	26.3	40.3	41.8
137.5°	3.1	3.1	20.1	34.1	37.2
140°	3.1	3.1	15.5	29.4	32.5
142.5°	3.1	3.1	10.8	23.2	26.3
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)