

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: P237785

Luminaire Tested: **8VT2-LD5-9-DR-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237785  
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: 8VT2-LD5-9-DR-UNV-L835-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
8FT FIXTURE  
Light Source: (224) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9054.0 lumens  
Efficiency: N/A  
Efficacy: 137.8 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

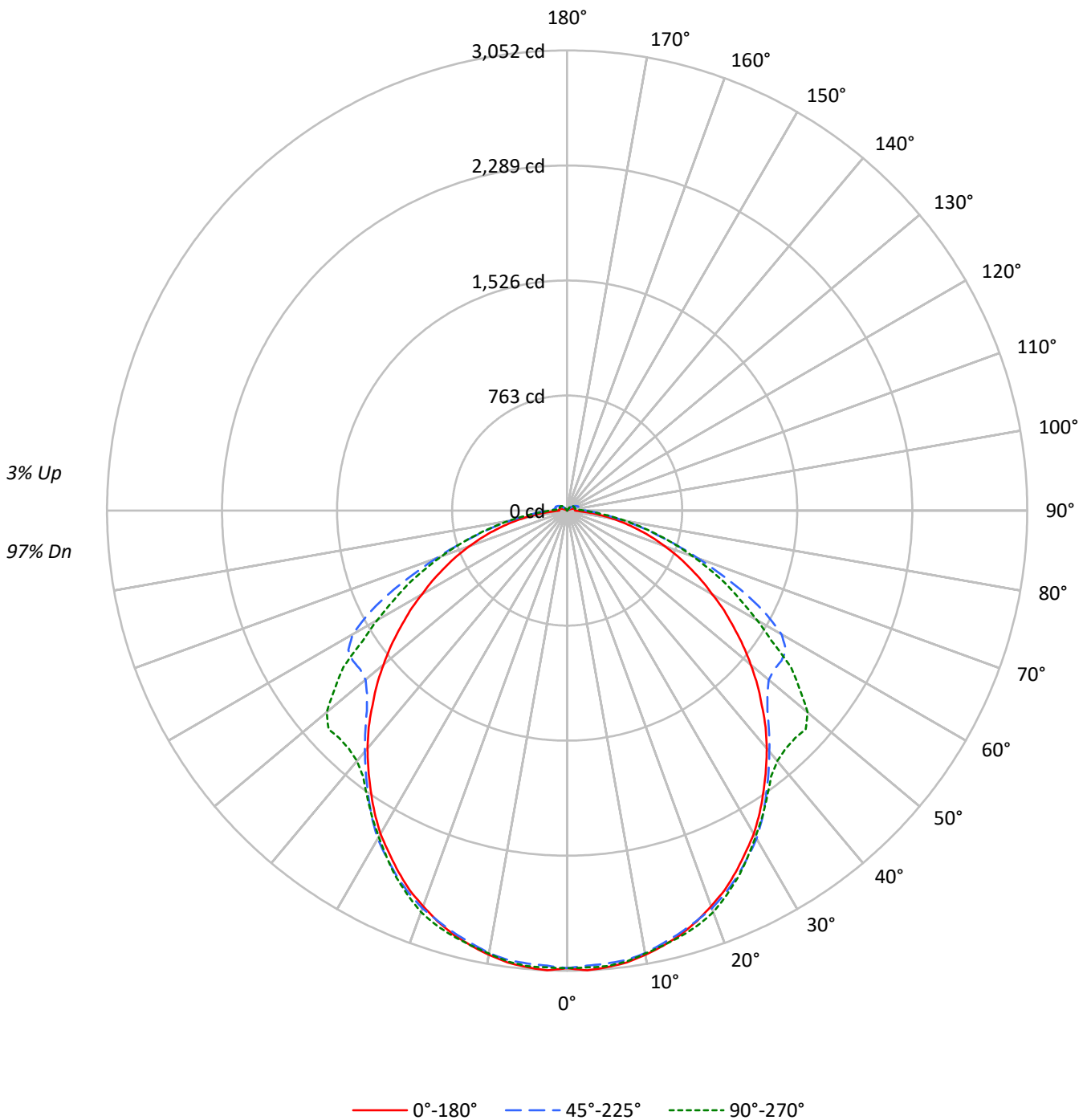
Input Watts (W): 65.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7839	7839	7839
5°	7871	7653	7643
10°	7822	7489	7392
15°	7746	7266	7174
20°	7620	7073	6949
25°	7472	6826	6621
30°	7299	6551	6250
35°	7062	6176	5914
40°	6833	5817	5714
45°	6541	5492	5853
50°	6240	5407	5989
55°	5905	5762	5532
60°	5559	5922	4767
65°	5249	5181	4177
70°	4927	4123	3491
75°	4533	3162	2775
80°	4022	2311	2023
85°	3312	1662	1287



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.0	3.2
10°-20°	822.8	9.1
20°-30°	1229.8	13.6
30°-40°	1440.8	15.9
40°-50°	1507.8	16.7
50°-60°	1458.3	16.1
60°-70°	1133.7	12.5
70°-80°	668.8	7.4
80°-90°	241.0	2.7
90°-100°	89.9	1.0
100°-110°	67.3	0.7
110°-120°	52.1	0.6
120°-130°	33.2	0.4
130°-140°	17.1	0.2
140°-150°	3.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2340.6	25.9
0°-40°	3781.4	41.8
0°-60°	6747.5	74.5
0°-90°	8791.0	97.1
90°-120°	209.3	2.3
90°-150°	263.0	2.9
90°-180°	263.0	2.9
0°-180°	9054.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3035	3035	3035	3035	3035	
5°	3040	3026	3016	3042	3033	289
15°	2912	2921	2899	2934	2922	820
25°	2646	2658	2674	2694	2684	1218
35°	2270	2300	2301	2314	2313	1421
45°	1826	1858	1879	2059	2136	1411
55°	1348	1395	1736	1851	1813	1208
65°	896	1077	1302	1163	1172	890
75°	488	729	612	620	624	519
85°	137	216	216	215	209	148
90°	53	112	124	118	111	32
95°	54	82	91	79	70	43
105°	44	64	79	63	54	46
115°	22	42	70	60	53	23
125°	9	16	48	53	50	9
135°	4	3	25	38	39	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°	3034.6	3034.6	3034.6	3034.6	3034.6
2.5°	3052.1	3037.5	3021.4	3040.4	3033.1
5°	3040.4	3025.8	3015.6	3041.9	3033.1
7.5°	3022.9	3012.7	3006.8	3028.7	3017.0
10°	2992.2	2987.8	2980.5	3002.4	2983.4
12.5°	2954.2	2958.6	2939.6	2964.4	2952.8
15°	2911.8	2920.6	2898.7	2933.8	2922.1
17.5°	2856.3	2866.6	2853.4	2897.2	2884.1
20°	2792.0	2797.9	2806.7	2837.3	2834.4
22.5°	2726.3	2730.7	2745.3	2768.7	2761.4
25°	2645.9	2657.6	2673.7	2694.2	2683.9
27.5°	2559.7	2577.3	2593.3	2609.4	2591.9
30°	2475.0	2483.8	2513.0	2511.5	2498.4
32.5°	2377.1	2399.0	2410.7	2406.3	2407.8
35°	2270.5	2299.7	2301.1	2314.3	2312.8
37.5°	2165.3	2197.4	2193.0	2217.9	2222.2
40°	2060.1	2082.0	2086.4	2130.2	2168.2
42.5°	1947.6	1969.5	1981.2	2073.2	2143.3
45°	1826.3	1858.4	1878.9	2058.6	2136.0
47.5°	1712.3	1741.6	1800.0	2058.6	2146.3
50°	1589.6	1624.7	1745.9	2054.2	2082.0
52.5°	1471.3	1506.3	1729.9	1991.4	1943.2
55°	1348.5	1395.3	1735.7	1851.1	1813.1
57.5°	1234.6	1300.3	1721.1	1683.1	1607.1
60°	1113.3	1209.7	1642.2	1496.1	1455.2
62.5°	1006.7	1136.7	1490.3	1317.9	1303.2
65°	895.6	1076.8	1301.8	1163.0	1171.8
67.5°	794.8	1022.7	1104.5	1021.3	1027.1
70°	688.1	958.4	920.5	886.8	885.4
72.5°	588.8	866.4	759.7	749.5	753.9
75°	488.0	729.1	612.2	619.5	623.9
77.5°	395.9	588.8	490.9	499.7	499.7
80°	301.0	439.8	375.5	391.6	393.0
82.5°	216.2	314.1	286.4	295.1	287.8
85°	137.3	216.2	216.2	214.8	208.9
87.5°	77.4	149.0	157.8	156.3	149.0
90°	52.6	112.5	124.2	118.3	111.0
92.5°	52.6	95.0	103.7	93.5	86.2
95°	54.1	81.8	90.6	78.9	70.1
97.5°	52.6	76.0	84.7	70.1	61.4
100°	51.1	70.1	81.8	65.7	57.0
102.5°	48.2	67.2	80.4	62.8	54.1
105°	43.8	64.3	78.9	62.8	54.1
107.5°	38.0	59.9	78.9	62.8	54.1
110°	33.6	54.1	77.4	61.4	52.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	27.8	48.2	74.5	61.4	52.6
115°	21.9	42.4	70.1	59.9	52.6
117.5°	19.0	35.1	65.7	59.9	52.6
120°	14.6	29.2	61.4	57.0	51.1
122.5°	11.7	21.9	55.5	55.5	49.7
125°	8.8	16.1	48.2	52.6	49.7
127.5°	7.3	11.7	42.4	49.7	48.2
130°	5.8	7.3	36.5	46.8	45.3
132.5°	4.4	4.4	30.7	42.4	42.4
135°	4.4	2.9	24.8	38.0	39.4
137.5°	2.9	2.9	19.0	32.1	35.1
140°	2.9	2.9	14.6	27.8	30.7
142.5°	2.9	2.9	10.2	21.9	24.8
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)