

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: P237798

Luminaire Tested: **8VT2-LD5-9-DR100-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237798
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: 8VT2-LD5-9-DR100-UNV-L840-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9061.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

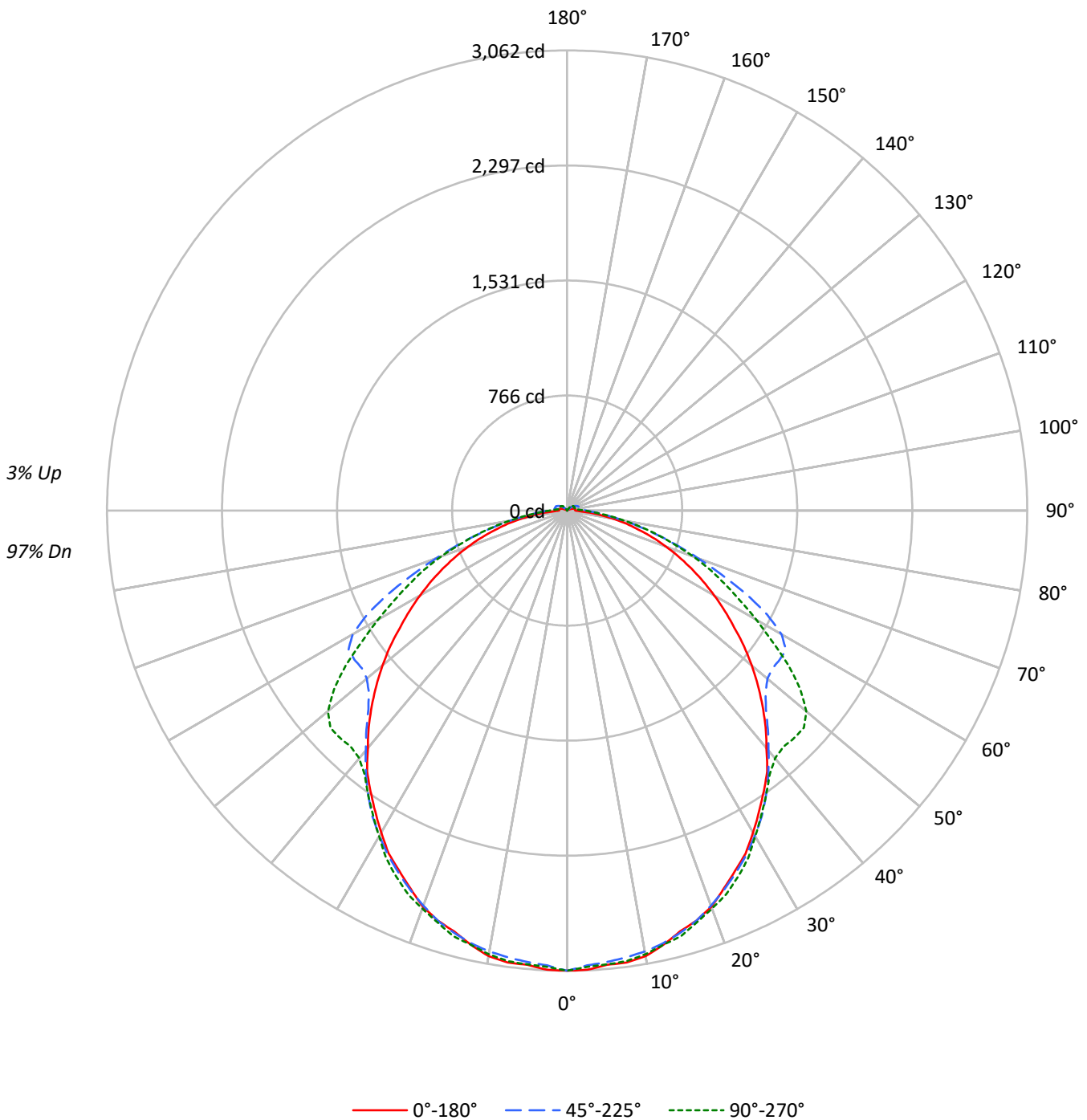
Input Watts (W): 65.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	7910	7910	7910
5°	7854	7652	7638
10°	7870	7484	7427
15°	7714	7291	7195
20°	7655	7049	6909
25°	7467	6784	6634
30°	7293	6512	6260
35°	7092	6195	5902
40°	6841	5812	5670
45°	6582	5466	5860
50°	6290	5388	5975
55°	5949	5736	5491
60°	5646	5942	4761
65°	5343	5227	4129
70°	5010	4142	3513
75°	4586	3192	2761
80°	4118	2320	1977
85°	3279	1650	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.2	3.2
10°-20°	822.5	9.1
20°-30°	1229.4	13.6
30°-40°	1439.8	15.9
40°-50°	1504.3	16.6
50°-60°	1461.4	16.1
60°-70°	1137.0	12.5
70°-80°	669.0	7.4
80°-90°	241.7	2.7
90°-100°	91.7	1.0
100°-110°	68.3	0.8
110°-120°	53.1	0.6
120°-130°	33.8	0.4
130°-140°	17.2	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°	2340.1	25.8
0°-40°	3779.9	41.7
0°-60°	6745.6	74.4
0°-90°	8793.4	97.0
90°-120°	213.2	2.4
90°-150°	267.6	3.0
90°-180°	268.0	3.0
0°-180°	9061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3062	3062	3062	3062	3062	
5°	3034	3025	3015	3036	3031	289
15°	2900	2908	2908	2935	2930	821
25°	2644	2666	2657	2691	2689	1220
35°	2280	2296	2308	2310	2308	1426
45°	1838	1855	1870	2044	2139	1418
55°	1358	1401	1728	1862	1800	1219
65°	912	1080	1313	1158	1158	903
75°	494	733	618	614	621	527
85°	136	219	215	213	210	148
90°	54	114	127	120	117	33
95°	56	83	92	80	73	45
105°	45	64	80	63	54	48
115°	23	44	72	61	53	24
125°	10	18	50	54	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°	3061.8	3061.8	3061.8	3061.8	3061.8
2.5°	3058.9	3045.8	3029.7	3047.2	3038.5
5°	3034.1	3025.3	3015.1	3035.5	3031.2
7.5°	3032.6	3013.6	2999.0	3025.3	3023.9
10°	3010.7	2985.9	2978.6	3006.3	2997.6
12.5°	2959.6	2947.9	2949.4	2980.0	2959.6
15°	2899.7	2908.5	2908.5	2934.8	2930.4
17.5°	2860.3	2860.3	2861.7	2879.2	2871.9
20°	2804.7	2801.8	2797.4	2826.7	2817.9
22.5°	2722.9	2734.6	2730.2	2769.7	2763.8
25°	2644.1	2666.0	2657.2	2690.8	2689.3
27.5°	2572.5	2584.2	2582.7	2610.5	2607.5
30°	2473.1	2492.1	2498.0	2515.5	2502.4
32.5°	2376.7	2395.7	2411.8	2411.8	2404.5
35°	2280.3	2296.4	2308.1	2309.5	2308.1
37.5°	2186.8	2188.3	2200.0	2200.0	2213.1
40°	2062.7	2080.2	2084.6	2118.2	2151.8
42.5°	1956.0	1966.2	1976.5	2062.7	2131.3
45°	1837.7	1855.2	1869.8	2043.7	2138.6
47.5°	1722.3	1736.9	1789.5	2051.0	2137.2
50°	1602.5	1623.0	1739.8	2058.3	2077.3
52.5°	1484.2	1511.9	1722.3	1994.0	1956.0
55°	1358.5	1400.9	1728.1	1862.5	1799.7
57.5°	1243.1	1304.5	1725.2	1690.1	1614.2
60°	1130.7	1218.3	1647.8	1494.4	1453.5
62.5°	1019.6	1145.3	1500.2	1319.1	1297.2
65°	911.5	1079.5	1313.3	1158.4	1158.4
67.5°	803.4	1026.9	1108.7	1015.3	1029.9
70°	699.7	964.1	924.7	872.1	891.1
72.5°	596.0	867.7	764.0	745.0	749.4
75°	493.8	733.3	617.9	613.5	620.8
77.5°	404.6	584.3	485.0	499.6	502.5
80°	308.2	439.7	376.9	390.0	384.2
82.5°	216.2	315.5	284.9	293.6	290.7
85°	135.9	219.1	214.7	213.3	210.4
87.5°	77.4	149.0	159.2	159.2	153.4
90°	54.0	113.9	127.1	119.8	116.9
92.5°	54.0	96.4	105.2	95.0	89.1
95°	55.5	83.3	92.0	80.3	73.0
97.5°	55.5	77.4	86.2	71.6	64.3
100°	54.0	71.6	83.3	65.7	58.4
102.5°	49.7	68.7	81.8	64.3	55.5
105°	45.3	64.3	80.3	62.8	54.0
107.5°	40.9	59.9	80.3	62.8	52.6
110°	35.1	55.5	78.9	62.8	52.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.2	49.7	76.0	61.4	52.6
115°	23.4	43.8	71.6	61.4	52.6
117.5°	19.0	36.5	67.2	59.9	52.6
120°	16.1	29.2	62.8	58.4	51.1
122.5°	11.7	23.4	55.5	55.5	51.1
125°	10.2	17.5	49.7	54.0	49.7
127.5°	7.3	11.7	43.8	49.7	48.2
130°	5.8	7.3	36.5	46.7	46.7
132.5°	4.4	4.4	30.7	42.4	43.8
135°	4.4	2.9	24.8	38.0	39.4
137.5°	2.9	2.9	19.0	32.1	36.5
140°	2.9	2.9	14.6	27.8	30.7
142.5°	2.9	2.9	10.2	21.9	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)