

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: P237810

Luminaire Tested: **8VT2-LD5-9-FR50-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237810
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: 8VT2-LD5-9-FR50-UNV-L840-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
FROSTED LENS/15% 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: 8965.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

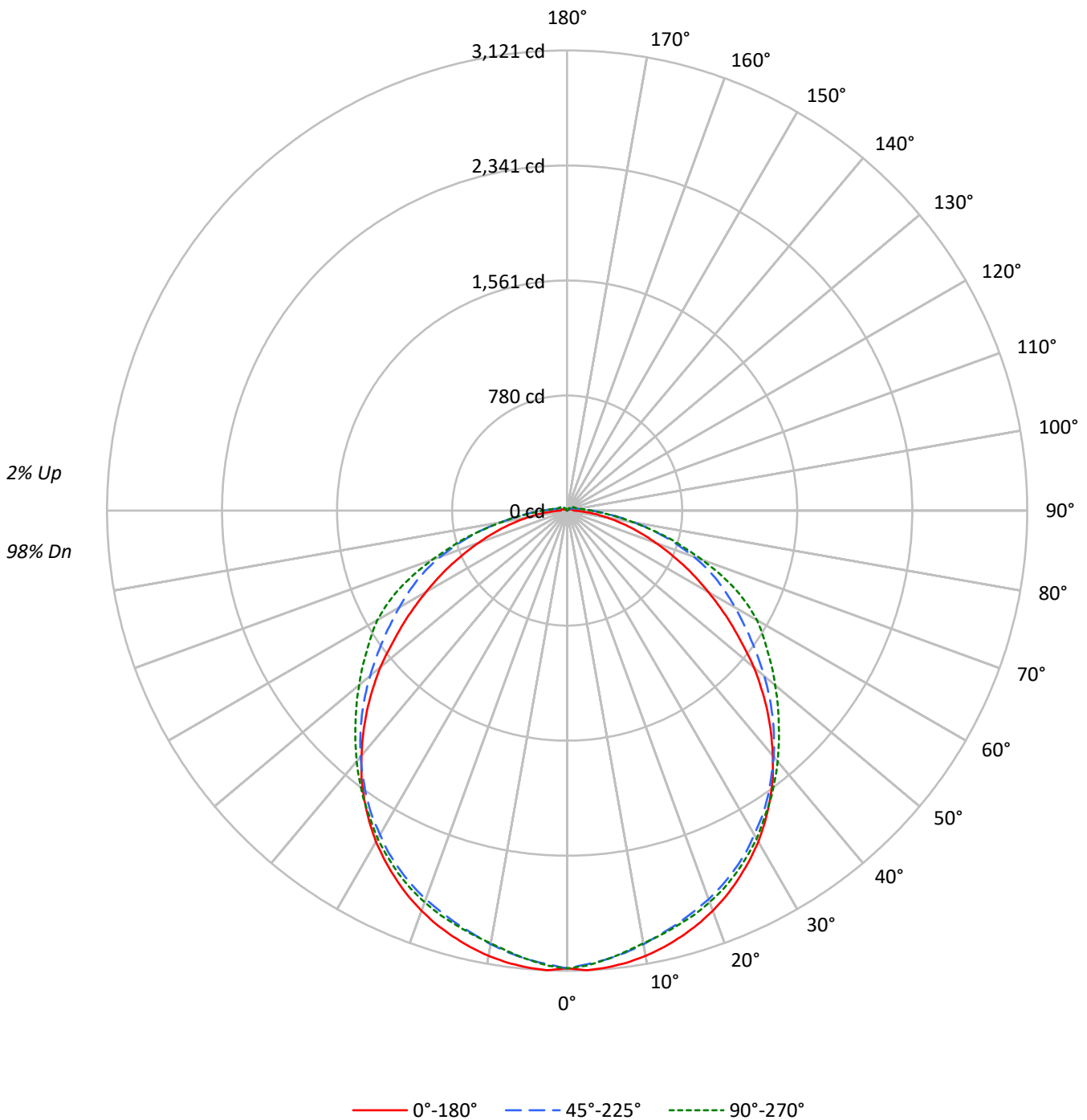
Input Watts (W): 65.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8020	8020	8020
5°	8052	7756	7701
10°	8016	7503	7384
15°	7956	7269	7145
20°	7883	7069	6931
25°	7777	6859	6693
30°	7647	6616	6429
35°	7457	6368	6141
40°	7195	6077	5852
45°	6881	5757	5560
50°	6492	5402	5295
55°	6001	5049	5060
60°	5523	4742	4872
65°	5061	4478	4479
70°	4561	4090	3825
75°	4153	3524	3145
80°	3689	2823	2331
85°	3312	2145	1656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	3.2
10°-20°	826.6	9.2
20°-30°	1247.1	13.9
30°-40°	1488.3	16.6
40°-50°	1517.6	16.9
50°-60°	1358.5	15.2
60°-70°	1073.9	12.0
70°-80°	664.5	7.4
80°-90°	279.6	3.1
90°-100°	99.6	1.1
100°-110°	52.9	0.6
110°-120°	34.7	0.4
120°-130°	20.1	0.2
130°-140°	9.0	0.1
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2365.0	26.4
0°-40°	3853.3	43.0
0°-60°	6729.4	75.1
0°-90°	8747.4	97.6
90°-120°	187.2	2.1
90°-150°	217.7	2.4
90°-180°	218.0	2.4
0°-180°	8965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3105	3105	3105	3105	3105	
5°	3110	3087	3056	3067	3056	295
15°	2991	2942	2900	2918	2910	844
25°	2754	2696	2687	2716	2713	1268
35°	2398	2354	2373	2402	2402	1498
45°	1921	1907	1969	2019	2029	1479
55°	1370	1401	1521	1629	1658	1227
65°	863	923	1125	1240	1256	857
75°	447	541	682	709	707	476
85°	137	215	279	280	269	142
90°	45	112	167	168	162	30
95°	41	63	104	107	104	33
105°	32	31	56	63	61	34
115°	18	16	38	51	51	18
125°	7	4	23	36	41	7
135°	3	3	9	20	25	3
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°	3104.6	3104.6	3104.6	3104.6	3104.6
2.5°	3120.6	3103.1	3079.7	3095.8	3088.5
5°	3110.4	3087.0	3056.4	3066.6	3056.4
7.5°	3092.9	3063.7	3024.2	3028.6	3018.4
10°	3066.6	3031.5	2986.2	2990.6	2980.4
12.5°	3033.0	2990.6	2940.9	2957.0	2946.8
15°	2990.6	2942.4	2900.0	2917.6	2910.3
17.5°	2943.9	2891.3	2851.8	2879.6	2873.7
20°	2888.3	2829.9	2805.1	2831.4	2827.0
22.5°	2825.5	2762.7	2749.6	2778.8	2774.4
25°	2753.9	2695.5	2686.7	2716.0	2713.0
27.5°	2676.5	2615.1	2619.5	2644.4	2642.9
30°	2593.2	2539.2	2537.7	2571.3	2569.9
32.5°	2499.7	2445.7	2460.3	2486.6	2482.2
35°	2397.5	2353.6	2372.6	2401.8	2401.8
37.5°	2290.8	2249.9	2274.7	2305.4	2312.7
40°	2169.5	2138.9	2179.8	2216.3	2220.7
42.5°	2046.8	2026.4	2076.0	2117.0	2125.7
45°	1921.2	1906.6	1969.4	2019.1	2029.3
47.5°	1786.8	1786.8	1858.4	1918.3	1937.3
50°	1653.8	1653.8	1744.4	1818.9	1840.8
52.5°	1506.3	1526.7	1630.4	1719.6	1751.7
55°	1370.4	1401.1	1520.9	1629.0	1658.2
57.5°	1236.0	1274.0	1414.2	1539.9	1573.5
60°	1106.0	1157.1	1314.9	1449.3	1487.3
62.5°	983.2	1037.3	1219.9	1351.4	1377.7
65°	863.4	923.3	1125.0	1240.4	1256.4
67.5°	748.0	825.5	1025.6	1113.3	1119.1
70°	637.0	727.6	913.1	978.9	970.1
72.5°	540.6	631.1	797.7	843.0	828.4
75°	447.1	540.6	682.3	708.6	707.1
77.5°	359.4	451.4	569.8	584.4	569.8
80°	276.1	368.2	458.7	466.1	452.9
82.5°	206.0	284.9	360.9	365.2	357.9
85°	137.3	214.8	279.0	280.5	268.8
87.5°	83.3	156.3	213.3	216.2	207.5
90°	45.3	112.5	166.6	168.0	162.2
92.5°	42.4	81.8	128.6	131.5	128.6
95°	40.9	62.8	103.7	106.7	103.7
97.5°	40.9	51.1	84.7	89.1	86.2
100°	38.0	42.4	71.6	76.0	74.5
102.5°	36.5	35.1	62.8	68.7	65.7
105°	32.1	30.7	55.5	62.8	61.4
107.5°	29.2	26.3	51.1	58.4	57.0
110°	24.8	23.4	46.8	55.5	55.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.5	19.0	42.4	52.6	52.6
115°	17.5	16.1	38.0	51.1	51.1
117.5°	14.6	13.1	35.1	48.2	49.7
120°	11.7	10.2	30.7	43.8	46.8
122.5°	10.2	7.3	26.3	40.9	43.8
125°	7.3	4.4	23.4	36.5	40.9
127.5°	5.8	4.4	19.0	32.1	36.5
130°	4.4	2.9	16.1	29.2	32.1
132.5°	4.4	2.9	11.7	24.8	27.8
135°	2.9	2.9	8.8	20.5	24.8
137.5°	2.9	1.5	5.8	16.1	20.5
140°	2.9	1.5	2.9	13.1	16.1
142.5°	1.5	1.5	1.5	8.8	11.7
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)