

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: P237853

Luminaire Tested: **4VT2-LD5-8-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VT2-LD5-8-DR100-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8735.0 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

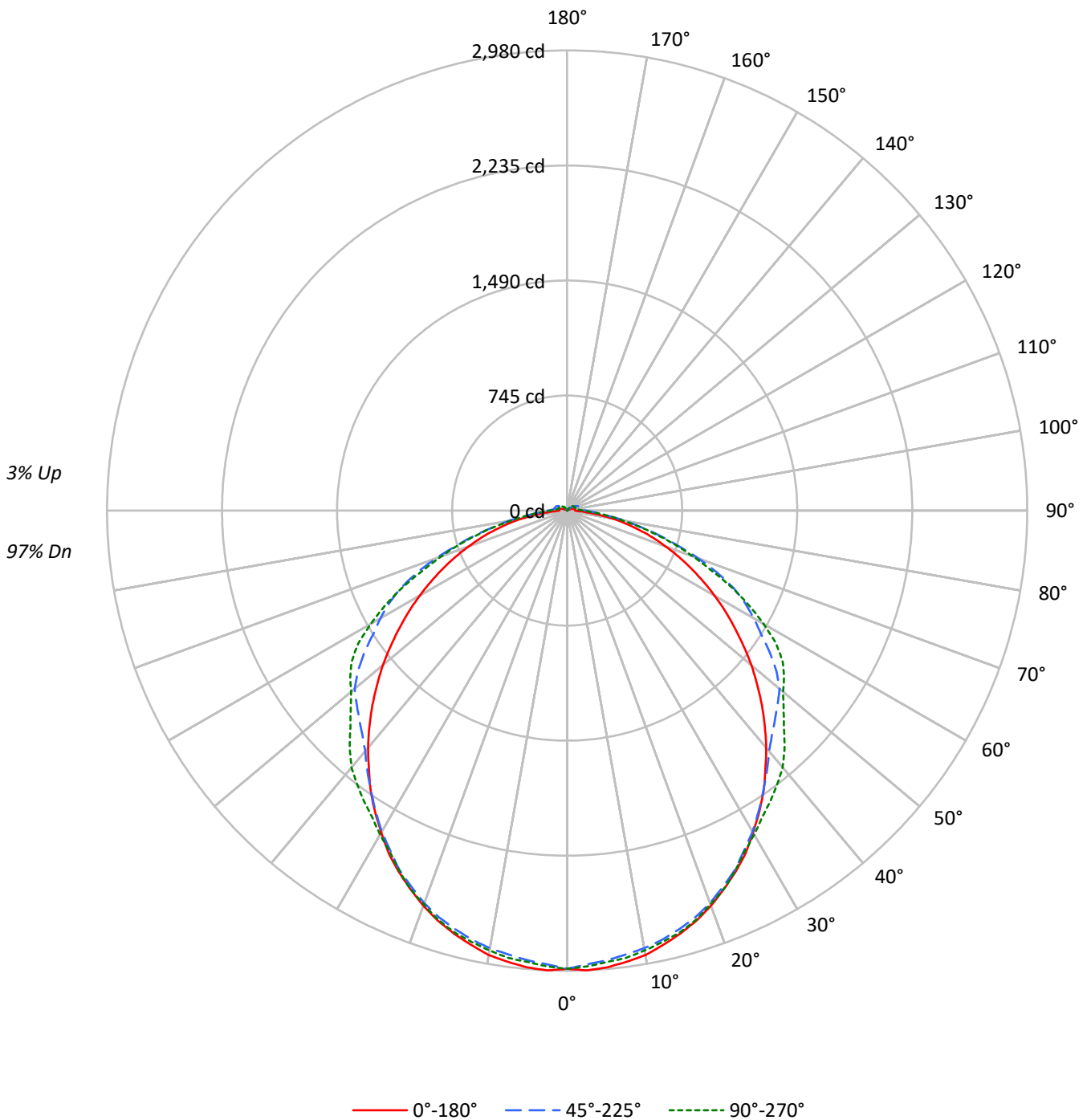
Input Watts (W): 58.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	99	99	99	99	99	97		
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	87	85	83	87	85	83	80		
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	76	72	69	76	72	69	66		
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	67	62	58	67	62	58	56		
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	59	54	50	59	54	50	47		
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	53	48	43	53	48	43	41		
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	48	42	38	48	42	38	36		
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	44	38	33	44	38	33	31		
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	40	34	30	40	34	30	28		
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	37	31	27	37	31	27	25		
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	35	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15328	15328	15328
5°	15344	14819	14790
10°	15224	14426	14333
15°	15005	14016	13881
20°	14757	13569	13305
25°	14444	13036	12703
30°	14037	12428	12123
35°	13605	11792	11735
40°	13086	11231	11446
45°	12533	11011	10879
50°	11954	10985	10500
55°	11299	10484	10395
60°	10652	9898	9624
65°	9953	9292	8380
70°	9218	7916	6836
75°	8377	6160	5281
80°	7198	4509	3732
85°	5089	2987	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	3.2
10°-20°	795.4	9.1
20°-30°	1184.6	13.6
30°-40°	1401.7	16.0
40°-50°	1463.8	16.8
50°-60°	1377.1	15.8
60°-70°	1104.5	12.6
70°-80°	641.0	7.3
80°-90°	228.3	2.6
90°-100°	89.1	1.0
100°-110°	67.1	0.8
110°-120°	51.0	0.6
120°-130°	31.2	0.4
130°-140°	15.3	0.2
140°-150°	5.0	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2259.3	25.9
0°-40°	3661.0	41.9
0°-60°	6501.9	74.4
0°-90°	8475.7	97.0
90°-120°	207.1	2.4
90°-150°	258.6	3.0
90°-180°	259.0	3.0
0°-180°	8735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2967	2967	2967	2967	2967	
5°	2969	2953	2923	2938	2935	282
15°	2835	2814	2806	2834	2827	800
25°	2581	2566	2568	2586	2575	1188
35°	2217	2214	2215	2264	2295	1385
45°	1784	1793	1905	1999	1985	1376
55°	1326	1392	1603	1661	1703	1187
65°	884	1100	1190	1182	1176	878
75°	482	661	613	601	594	512
85°	125	205	202	198	195	140
90°	51	109	122	114	108	31
95°	52	81	90	80	72	42
105°	42	60	80	65	56	44
115°	22	38	69	62	53	23
125°	8	15	46	50	48	8
135°	4	3	21	34	35	3
145°	2	2	4	15	17	1
155°	1	1	1	1	2	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°	2966.7	2966.7	2966.7	2966.7	2966.7
2.5°	2980.5	2964.6	2941.3	2962.5	2955.1
5°	2968.9	2953.0	2923.3	2938.1	2934.9
7.5°	2947.7	2926.5	2900.0	2923.3	2921.2
10°	2922.2	2897.8	2877.7	2900.0	2892.5
12.5°	2879.8	2860.7	2845.9	2872.4	2860.7
15°	2835.3	2814.1	2805.6	2834.2	2826.8
17.5°	2784.4	2767.5	2761.1	2777.0	2778.1
20°	2723.0	2710.2	2704.9	2726.1	2713.4
22.5°	2653.0	2635.0	2636.0	2658.3	2651.9
25°	2580.9	2566.1	2568.2	2586.2	2574.6
27.5°	2502.5	2485.5	2481.3	2500.4	2488.7
30°	2407.1	2403.9	2400.7	2416.6	2423.0
32.5°	2314.9	2313.8	2307.5	2329.7	2352.0
35°	2217.4	2214.2	2215.2	2264.0	2294.7
37.5°	2109.3	2112.4	2125.2	2203.6	2234.3
40°	2005.4	2006.4	2034.0	2151.7	2171.8
42.5°	1895.1	1897.3	1964.0	2088.1	2083.8
45°	1783.9	1793.4	1904.7	1999.0	1985.2
47.5°	1668.3	1686.3	1849.6	1899.4	1900.4
50°	1558.1	1581.4	1796.6	1808.2	1825.2
52.5°	1440.4	1486.0	1707.5	1723.4	1771.1
55°	1326.0	1391.7	1602.6	1660.9	1703.3
57.5°	1213.6	1310.1	1489.2	1581.4	1604.7
60°	1102.3	1236.9	1395.9	1471.2	1469.1
62.5°	993.2	1167.0	1298.4	1333.4	1328.1
65°	884.0	1100.2	1190.3	1181.8	1175.5
67.5°	783.3	1009.1	1052.5	1017.5	1006.9
70°	677.3	898.8	904.1	869.1	867.0
72.5°	581.9	780.1	748.3	731.3	732.4
75°	482.3	661.4	612.6	601.0	593.6
77.5°	389.0	531.0	483.3	481.2	477.0
80°	296.8	409.1	378.4	368.9	362.5
82.5°	206.7	295.7	276.6	276.6	272.4
85°	125.1	204.6	202.4	198.2	195.0
87.5°	70.0	141.0	151.6	147.3	138.9
90°	50.9	109.2	121.9	114.5	108.1
92.5°	50.9	92.2	101.8	93.3	85.9
95°	51.9	80.6	90.1	79.5	72.1
97.5°	51.9	74.2	84.8	72.1	64.7
100°	49.8	68.9	81.6	67.8	59.4
102.5°	46.6	64.7	79.5	65.7	57.2
105°	42.4	60.4	79.5	64.7	56.2
107.5°	37.1	56.2	77.4	64.7	55.1
110°	31.8	50.9	76.3	63.6	55.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.6	44.5	73.1	62.5	54.1
115°	22.3	38.2	68.9	61.5	53.0
117.5°	18.0	31.8	63.6	59.4	51.9
120°	14.8	25.4	57.2	56.2	50.9
122.5°	10.6	19.1	51.9	54.1	49.8
125°	8.5	14.8	45.6	49.8	47.7
127.5°	7.4	9.5	39.2	46.6	45.6
130°	5.3	6.4	32.9	42.4	42.4
132.5°	4.2	4.2	26.5	38.2	39.2
135°	4.2	3.2	21.2	33.9	35.0
137.5°	3.2	3.2	17.0	28.6	30.7
140°	2.1	2.1	11.7	23.3	26.5
142.5°	2.1	2.1	7.4	19.1	21.2
145°	2.1	2.1	4.2	14.8	17.0
147.5°	2.1	1.1	2.1	10.6	12.7
150°	2.1	1.1	1.1	6.4	8.5
152.5°	1.1	1.1	1.1	3.2	5.3
155°	1.1	1.1	1.1	1.1	2.1
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)