

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: P237862

Luminaire Tested: **8VT2-LD5-22-DR100-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237862
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: 8VT2-LD5-22-DR100-UNV-L850-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (448) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22835.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

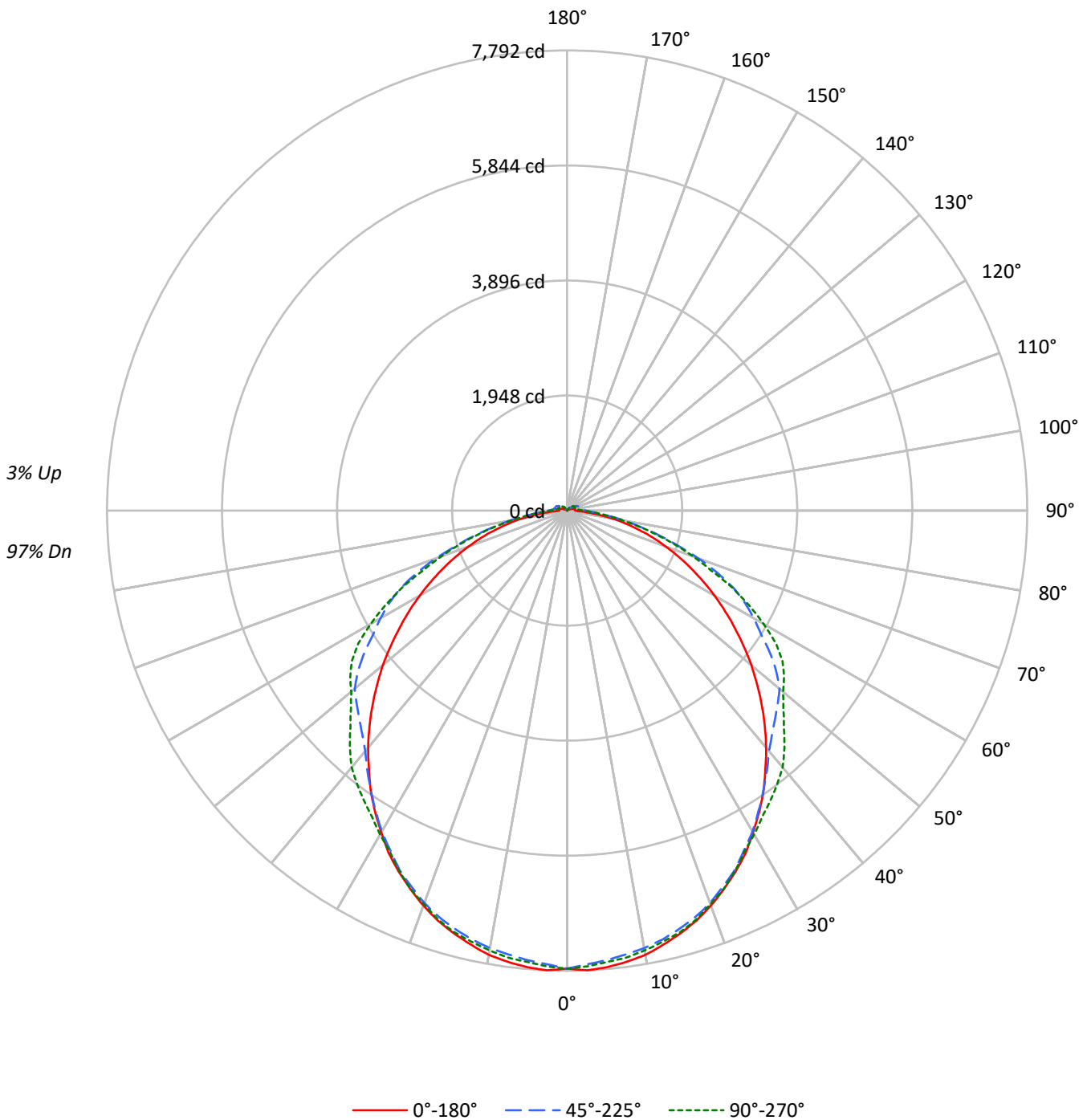
Input Watts (W): 164.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	56
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
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	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20035	20035	20035
5°	20091	19393	19333
10°	19969	18901	18735
15°	19718	18385	18144
20°	19428	17819	17391
25°	19054	17140	16604
30°	18556	16361	15845
35°	18028	15544	15339
40°	17388	14824	14962
45°	16703	14555	14220
50°	15989	14545	13724
55°	15178	13907	13587
60°	14390	13160	12579
65°	13545	12385	10954
70°	12677	10586	8936
75°	11709	8272	6902
80°	10366	6089	4877
85°	7889	4068	3142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.4	3.2
10°-20°	2079.3	9.1
20°-30°	3096.7	13.6
30°-40°	3664.3	16.0
40°-50°	3826.7	16.8
50°-60°	3600.1	15.8
60°-70°	2887.3	12.6
70°-80°	1675.7	7.3
80°-90°	596.9	2.6
90°-100°	232.9	1.0
100°-110°	175.3	0.8
110°-120°	133.2	0.6
120°-130°	81.6	0.4
130°-140°	39.9	0.2
140°-150°	13.1	0.1
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5906.3	25.9
0°-40°	9570.6	41.9
0°-60°	16997.3	74.4
0°-90°	22157.3	97.0
90°-120°	541.5	2.4
90°-150°	676.1	3.0
90°-180°	678.0	3.0
0°-180°	22835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7756	7756	7756	7756	7756	
5°	7761	7720	7642	7681	7672	737
15°	7412	7357	7334	7409	7390	2090
25°	6747	6708	6714	6761	6730	3105
35°	5797	5788	5791	5919	5999	3620
45°	4663	4688	4979	5226	5190	3596
55°	3466	3638	4190	4342	4453	3103
65°	2311	2876	3112	3090	3073	2296
75°	1261	1729	1602	1571	1552	1338
85°	327	535	529	518	510	366
90°	133	285	319	299	283	80
95°	136	211	236	208	188	110
105°	111	158	208	169	147	116
115°	58	100	180	161	138	59
125°	22	39	119	130	125	22
135°	11	8	55	89	91	8
145°	6	6	11	39	44	3
155°	3	3	3	3	6	1
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°	7755.6	7755.6	7755.6	7755.6	7755.6
2.5°	7791.7	7750.1	7689.1	7744.5	7725.2
5°	7761.2	7719.6	7642.0	7680.8	7672.5
7.5°	7705.8	7650.3	7581.1	7642.0	7636.5
10°	7639.3	7575.5	7522.9	7581.1	7561.7
12.5°	7528.4	7478.5	7439.8	7509.0	7478.5
15°	7412.0	7356.6	7334.5	7409.3	7389.9
17.5°	7279.0	7234.7	7218.1	7259.6	7262.4
20°	7118.3	7085.1	7071.2	7126.6	7093.4
22.5°	6935.5	6888.4	6891.1	6949.3	6932.7
25°	6747.0	6708.2	6713.8	6760.9	6730.4
27.5°	6542.0	6497.7	6486.6	6536.5	6506.0
30°	6292.6	6284.3	6276.0	6317.6	6334.2
32.5°	6051.6	6048.8	6032.2	6090.3	6148.5
35°	5796.6	5788.3	5791.1	5918.6	5998.9
37.5°	5514.0	5522.3	5555.6	5760.6	5841.0
40°	5242.5	5245.2	5317.3	5624.8	5677.5
42.5°	4954.3	4959.8	5134.4	5458.6	5447.5
45°	4663.4	4688.3	4979.2	5225.8	5189.8
47.5°	4361.3	4408.4	4835.1	4965.4	4968.1
50°	4073.2	4134.1	4696.6	4727.1	4771.4
52.5°	3765.6	3884.7	4463.9	4505.4	4630.1
55°	3466.3	3638.1	4189.5	4341.9	4452.8
57.5°	3172.6	3424.8	3893.1	4134.1	4195.1
60°	2881.7	3233.6	3649.2	3845.9	3840.4
62.5°	2596.3	3050.7	3394.3	3485.7	3471.9
65°	2310.9	2876.1	3111.7	3089.5	3072.9
67.5°	2047.7	2637.9	2751.5	2660.0	2632.3
70°	1770.6	2349.7	2363.5	2272.1	2266.6
72.5°	1521.2	2039.4	1956.2	1911.9	1914.7
75°	1260.7	1729.0	1601.6	1571.1	1551.7
77.5°	1016.9	1388.2	1263.5	1258.0	1246.9
80°	775.8	1069.6	989.2	964.3	947.6
82.5°	540.3	773.1	723.2	723.2	712.1
85°	327.0	534.8	529.2	518.2	509.8
87.5°	182.9	368.5	396.2	385.1	363.0
90°	133.0	285.4	318.6	299.3	282.6
92.5°	133.0	241.1	266.0	243.8	224.4
95°	135.8	210.6	235.5	207.8	188.4
97.5°	135.8	194.0	221.7	188.4	169.0
100°	130.2	180.1	213.4	177.3	155.2
102.5°	121.9	169.0	207.8	171.8	149.6
105°	110.8	157.9	207.8	169.0	146.9
107.5°	97.0	146.9	202.3	169.0	144.1
110°	83.1	133.0	199.5	166.3	144.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.0	116.4	191.2	163.5	141.3
115°	58.2	99.8	180.1	160.7	138.5
117.5°	47.1	83.1	166.3	155.2	135.8
120°	38.8	66.5	149.6	146.9	133.0
122.5°	27.7	49.9	135.8	141.3	130.2
125°	22.2	38.8	119.1	130.2	124.7
127.5°	19.4	24.9	102.5	121.9	119.1
130°	13.9	16.6	85.9	110.8	110.8
132.5°	11.1	11.1	69.3	99.8	102.5
135°	11.1	8.3	55.4	88.7	91.4
137.5°	8.3	8.3	44.3	74.8	80.4
140°	5.5	5.5	30.5	61.0	69.3
142.5°	5.5	5.5	19.4	49.9	55.4
145°	5.5	5.5	11.1	38.8	44.3
147.5°	5.5	2.8	5.5	27.7	33.3
150°	5.5	2.8	2.8	16.6	22.2
152.5°	2.8	2.8	2.8	8.3	13.9
155°	2.8	2.8	2.8	2.8	5.5
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)