

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: P237861

Luminaire Tested: **8VT2-LD5-22-DR100-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237861
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-L840-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (448) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21543.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

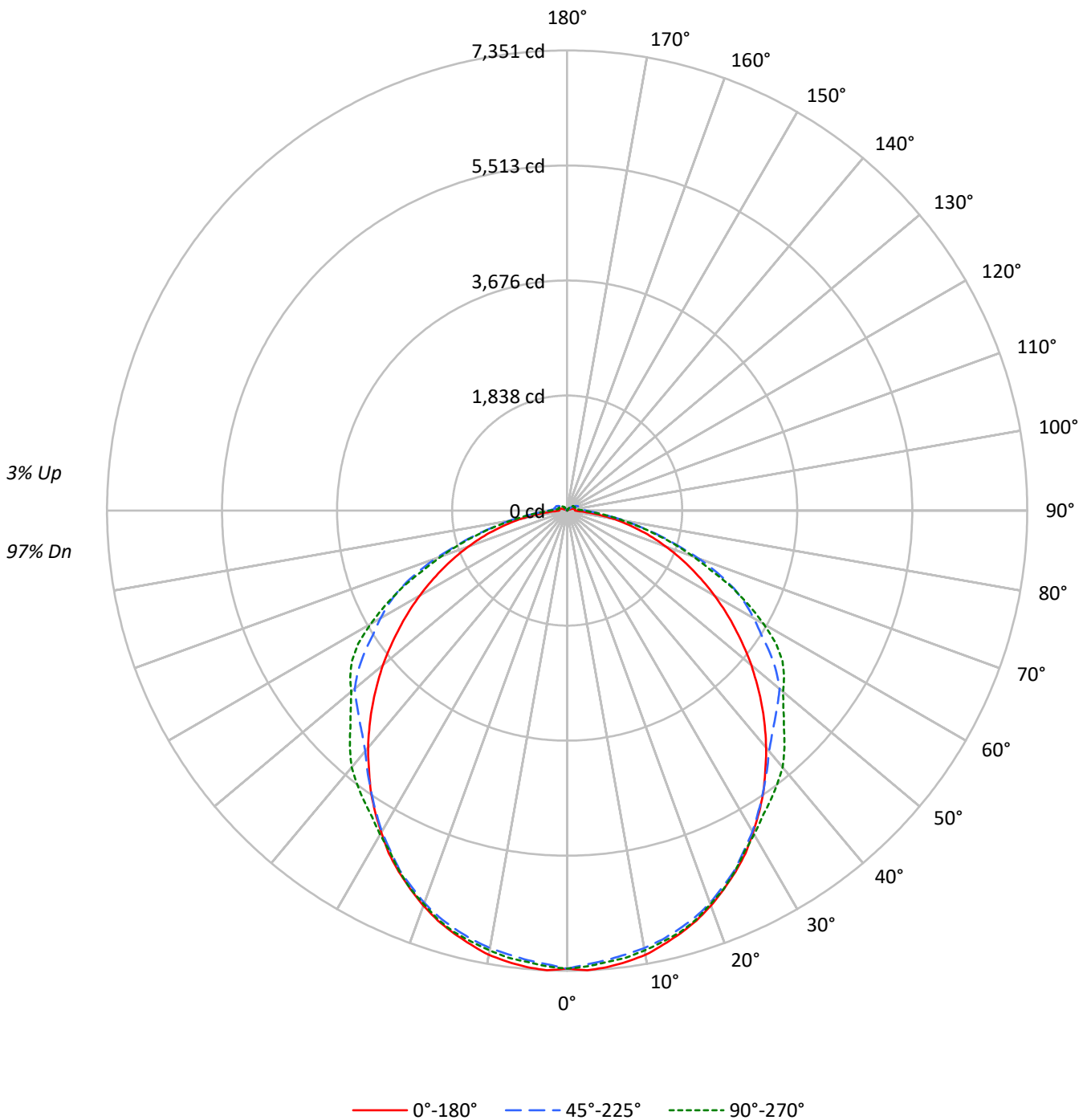
Input Watts (W): 164.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18902	18902	18902
5°	18954	18296	18239
10°	18839	17832	17674
15°	18602	17345	17117
20°	18329	16811	16407
25°	17976	16170	15664
30°	17507	15435	14949
35°	17008	14664	14471
40°	16403	13985	14115
45°	15758	13731	13416
50°	15084	13722	12948
55°	14320	13120	12818
60°	13576	12415	11868
65°	12778	11684	10334
70°	11960	9987	8430
75°	11047	7804	6511
80°	9779	5744	4601
85°	7443	3838	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.0	3.2
10°-20°	1961.7	9.1
20°-30°	2921.4	13.6
30°-40°	3456.9	16.0
40°-50°	3610.2	16.8
50°-60°	3396.4	15.8
60°-70°	2723.9	12.6
70°-80°	1580.9	7.3
80°-90°	563.1	2.6
90°-100°	219.8	1.0
100°-110°	165.4	0.8
110°-120°	125.7	0.6
120°-130°	77.0	0.4
130°-140°	37.7	0.2
140°-150°	12.4	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5572.1	25.9
0°-40°	9029.1	41.9
0°-60°	16035.6	74.4
0°-90°	20903.6	97.0
90°-120°	510.8	2.4
90°-150°	637.8	3.0
90°-180°	639.0	3.0
0°-180°	21543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7317	7317	7317	7317	7317	
5°	7322	7283	7210	7246	7238	695
15°	6993	6940	6920	6990	6972	1972
25°	6365	6329	6334	6378	6350	2930
35°	5469	5461	5463	5584	5660	3415
45°	4400	4423	4698	4930	4896	3392
55°	3270	3432	3952	4096	4201	2928
65°	2180	2713	2936	2915	2899	2166
75°	1189	1631	1511	1482	1464	1262
85°	308	504	499	489	481	345
90°	126	269	301	282	267	75
95°	128	199	222	196	178	104
105°	105	149	196	160	138	109
115°	55	94	170	152	131	56
125°	21	37	112	123	118	20
135°	10	8	52	84	86	7
145°	5	5	10	37	42	3
155°	3	3	3	3	5	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P237861

CATALOG NUMBER: 8VT2-LD5-22-DR100-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7316.8	7316.8	7316.8	7316.8	7316.8
2.5°	7350.8	7311.6	7254.1	7306.4	7288.1
5°	7322.0	7282.8	7209.6	7246.2	7238.4
7.5°	7269.8	7217.5	7152.1	7209.6	7204.4
10°	7207.0	7146.9	7097.2	7152.1	7133.8
12.5°	7102.5	7055.4	7018.8	7084.2	7055.4
15°	6992.7	6940.4	6919.5	6990.1	6971.8
17.5°	6867.2	6825.4	6809.7	6848.9	6851.5
20°	6715.6	6684.2	6671.1	6723.4	6692.1
22.5°	6543.0	6498.6	6501.2	6556.1	6540.4
25°	6365.3	6328.7	6333.9	6378.4	6349.6
27.5°	6171.8	6130.0	6119.6	6166.6	6137.9
30°	5936.6	5928.7	5920.9	5960.1	5975.8
32.5°	5709.2	5706.5	5690.9	5745.8	5800.6
35°	5468.7	5460.8	5463.4	5583.7	5659.5
37.5°	5202.0	5209.9	5241.2	5434.7	5510.5
40°	4945.8	4948.5	5016.4	5306.6	5356.3
42.5°	4674.0	4679.2	4843.9	5149.7	5139.3
45°	4399.5	4423.0	4697.5	4930.2	4896.2
47.5°	4114.6	4159.0	4561.6	4684.4	4687.1
50°	3842.7	3900.2	4430.9	4459.6	4501.5
52.5°	3552.5	3664.9	4211.3	4250.5	4368.1
55°	3270.2	3432.3	3952.5	4096.3	4200.8
57.5°	2993.1	3231.0	3672.8	3900.2	3957.7
60°	2718.6	3050.6	3442.7	3628.3	3623.1
62.5°	2449.4	2878.1	3202.3	3288.5	3275.4
65°	2180.1	2713.4	2935.6	2914.7	2899.0
67.5°	1931.8	2488.6	2595.8	2509.5	2483.4
70°	1670.4	2216.7	2229.8	2143.5	2138.3
72.5°	1435.1	1924.0	1845.5	1803.7	1806.3
75°	1189.4	1631.2	1510.9	1482.2	1463.9
77.5°	959.4	1309.7	1192.0	1186.8	1176.3
80°	731.9	1009.0	933.2	909.7	894.0
82.5°	509.7	729.3	682.3	682.3	671.8
85°	308.5	504.5	499.3	488.8	481.0
87.5°	172.5	347.7	373.8	363.4	342.4
90°	125.5	269.3	300.6	282.3	266.6
92.5°	125.5	227.4	251.0	230.0	211.7
95°	128.1	198.7	222.2	196.1	177.8
97.5°	128.1	183.0	209.1	177.8	159.5
100°	122.9	169.9	201.3	167.3	146.4
102.5°	115.0	159.5	196.1	162.1	141.2
105°	104.6	149.0	196.1	159.5	138.5
107.5°	91.5	138.5	190.8	159.5	135.9
110°	78.4	125.5	188.2	156.8	135.9



TEST NUMBER: P237861

CATALOG NUMBER: 8VT2-LD5-22-DR100-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.0	109.8	180.4	154.2	133.3
115°	54.9	94.1	169.9	151.6	130.7
117.5°	44.4	78.4	156.8	146.4	128.1
120°	36.6	62.7	141.2	138.5	125.5
122.5°	26.1	47.1	128.1	133.3	122.9
125°	20.9	36.6	112.4	122.9	117.6
127.5°	18.3	23.5	96.7	115.0	112.4
130°	13.1	15.7	81.0	104.6	104.6
132.5°	10.5	10.5	65.4	94.1	96.7
135°	10.5	7.8	52.3	83.7	86.3
137.5°	7.8	7.8	41.8	70.6	75.8
140°	5.2	5.2	28.8	57.5	65.4
142.5°	5.2	5.2	18.3	47.1	52.3
145°	5.2	5.2	10.5	36.6	41.8
147.5°	5.2	2.6	5.2	26.1	31.4
150°	5.2	2.6	2.6	15.7	20.9
152.5°	2.6	2.6	2.6	7.8	13.1
155°	2.6	2.6	2.6	2.6	5.2
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)