

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: P237801

Luminaire Tested: **8VT2-LD5-12-DR100-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237801
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-LD5-12-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: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12404.1 lumens
Efficiency: N/A
Efficacy: 122.6 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

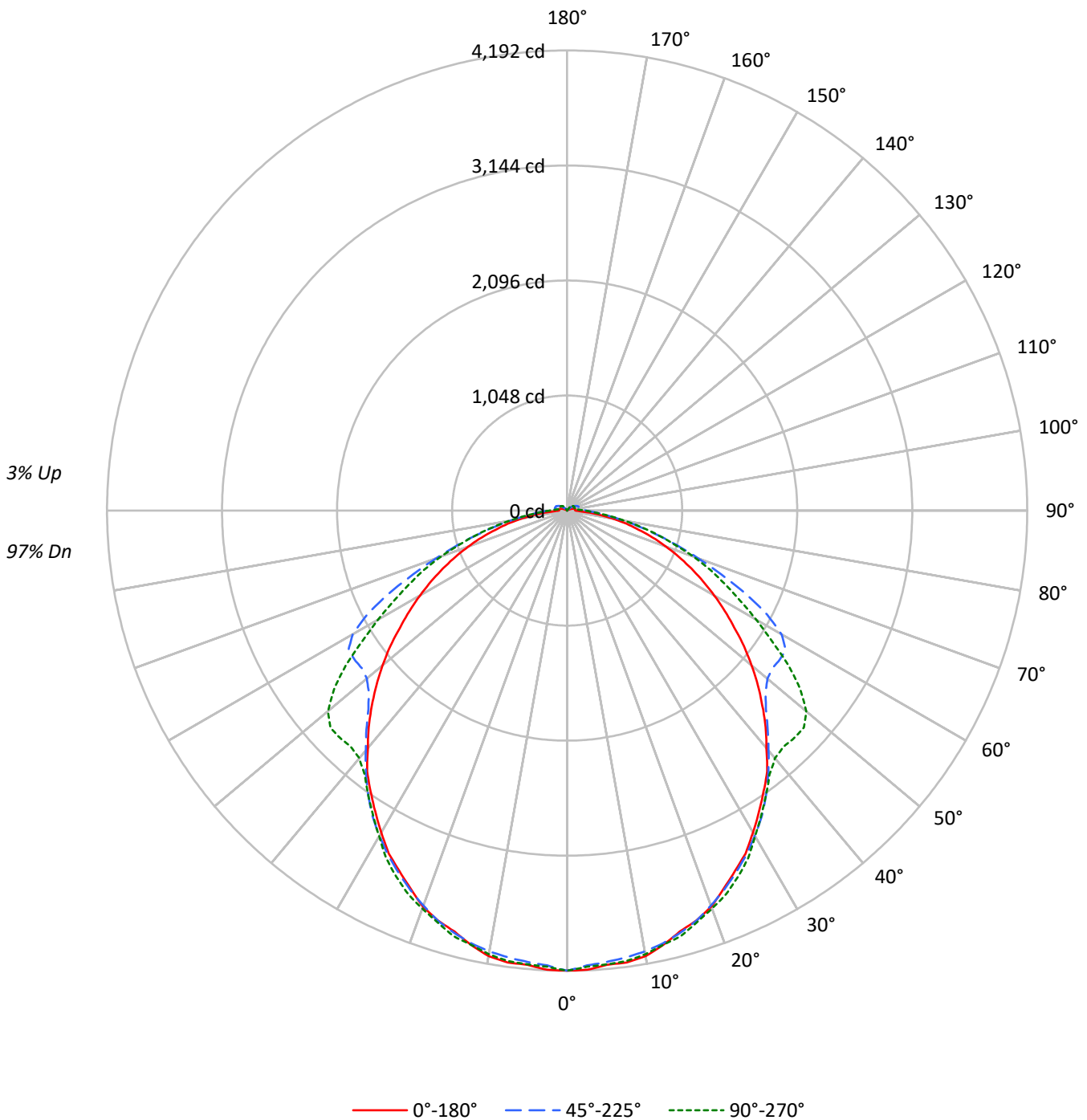
Input Watts (W): 101.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10828	10828	10828
5°	10752	10475	10456
10°	10773	10245	10167
15°	10560	9980	9849
20°	10479	9650	9457
25°	10222	9287	9082
30°	9984	8915	8569
35°	9709	8481	8079
40°	9365	7956	7762
45°	9011	7482	8022
50°	8611	7376	8179
55°	8144	7853	7518
60°	7729	8134	6518
65°	7314	7156	5653
70°	6858	5669	4809
75°	6278	4369	3780
80°	5637	3175	2707
85°	4487	2260	1775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.5	3.2
10°-20°	1126.0	9.1
20°-30°	1683.0	13.6
30°-40°	1971.0	15.9
40°-50°	2059.2	16.6
50°-60°	2000.6	16.1
60°-70°	1556.5	12.5
70°-80°	915.9	7.4
80°-90°	330.9	2.7
90°-100°	125.6	1.0
100°-110°	93.6	0.8
110°-120°	72.7	0.6
120°-130°	46.3	0.4
130°-140°	23.6	0.2
140°-150°	4.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3203.5	25.8
0°-40°	5174.5	41.7
0°-60°	9234.3	74.4
0°-90°	12037.7	97.0
90°-120°	291.9	2.4
90°-150°	366.4	3.0
90°-180°	366.0	3.0
0°-180°	12404.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4192	4192	4192	4192	4192	
5°	4154	4142	4128	4156	4150	396
15°	3970	3982	3982	4018	4012	1124
25°	3620	3650	3638	3684	3682	1670
35°	3122	3144	3160	3162	3160	1952
45°	2516	2540	2560	2798	2928	1941
55°	1860	1918	2366	2550	2464	1669
65°	1248	1478	1798	1586	1586	1236
75°	676	1004	846	840	850	721
85°	186	300	294	292	288	203
90°	74	156	174	164	160	45
95°	76	114	126	110	100	62
105°	62	88	110	86	74	65
115°	32	60	98	84	72	33
125°	14	24	68	74	68	12
135°	6	4	34	52	54	4
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



TEST NUMBER: P237801

CATALOG NUMBER: 8VT2-LD5-12-DR100-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4191.5	4191.5	4191.5	4191.5	4191.5
2.5°	4187.5	4169.5	4147.5	4171.5	4159.5
5°	4153.5	4141.5	4127.5	4155.5	4149.5
7.5°	4151.5	4125.5	4105.5	4141.5	4139.5
10°	4121.5	4087.5	4077.5	4115.5	4103.5
12.5°	4051.5	4035.5	4037.5	4079.5	4051.5
15°	3969.5	3981.5	3981.5	4017.5	4011.5
17.5°	3915.5	3915.5	3917.5	3941.5	3931.5
20°	3839.5	3835.5	3829.5	3869.5	3857.5
22.5°	3727.5	3743.5	3737.5	3791.5	3783.5
25°	3619.6	3649.6	3637.6	3683.6	3681.6
27.5°	3521.6	3537.6	3535.6	3573.6	3569.6
30°	3385.6	3411.6	3419.6	3443.6	3425.6
32.5°	3253.6	3279.6	3301.6	3301.6	3291.6
35°	3121.6	3143.6	3159.6	3161.6	3159.6
37.5°	2993.6	2995.6	3011.6	3011.6	3029.6
40°	2823.7	2847.7	2853.7	2899.6	2945.6
42.5°	2677.7	2691.7	2705.7	2823.7	2917.6
45°	2515.7	2539.7	2559.7	2797.7	2927.6
47.5°	2357.7	2377.7	2449.7	2807.7	2925.6
50°	2193.7	2221.7	2381.7	2817.7	2843.7
52.5°	2031.8	2069.7	2357.7	2729.7	2677.7
55°	1859.8	1917.8	2365.7	2549.7	2463.7
57.5°	1701.8	1785.8	2361.7	2313.7	2209.7
60°	1547.8	1667.8	2255.7	2045.8	1989.8
62.5°	1395.8	1567.8	2053.7	1805.8	1775.8
65°	1247.8	1477.8	1797.8	1585.8	1585.8
67.5°	1099.9	1405.8	1517.8	1389.8	1409.8
70°	957.9	1319.8	1265.8	1193.9	1219.9
72.5°	815.9	1187.9	1045.9	1019.9	1025.9
75°	675.9	1003.9	845.9	839.9	849.9
77.5°	553.9	799.9	663.9	683.9	687.9
80°	421.9	601.9	515.9	533.9	525.9
82.5°	296.0	431.9	390.0	402.0	398.0
85°	186.0	300.0	294.0	292.0	288.0
87.5°	106.0	204.0	218.0	218.0	210.0
90°	74.0	156.0	174.0	164.0	160.0
92.5°	74.0	132.0	144.0	130.0	122.0
95°	76.0	114.0	126.0	110.0	100.0
97.5°	76.0	106.0	118.0	98.0	88.0
100°	74.0	98.0	114.0	90.0	80.0
102.5°	68.0	94.0	112.0	88.0	76.0
105°	62.0	88.0	110.0	86.0	74.0
107.5°	56.0	82.0	110.0	86.0	72.0
110°	48.0	76.0	108.0	86.0	72.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.0	68.0	104.0	84.0	72.0
115°	32.0	60.0	98.0	84.0	72.0
117.5°	26.0	50.0	92.0	82.0	72.0
120°	22.0	40.0	86.0	80.0	70.0
122.5°	16.0	32.0	76.0	76.0	70.0
125°	14.0	24.0	68.0	74.0	68.0
127.5°	10.0	16.0	60.0	68.0	66.0
130°	8.0	10.0	50.0	64.0	64.0
132.5°	6.0	6.0	42.0	58.0	60.0
135°	6.0	4.0	34.0	52.0	54.0
137.5°	4.0	4.0	26.0	44.0	50.0
140°	4.0	4.0	20.0	38.0	42.0
142.5°	4.0	4.0	14.0	30.0	36.0
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)