

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: P237789

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-12-DR-UNV-L840-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC 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: 12393.9 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

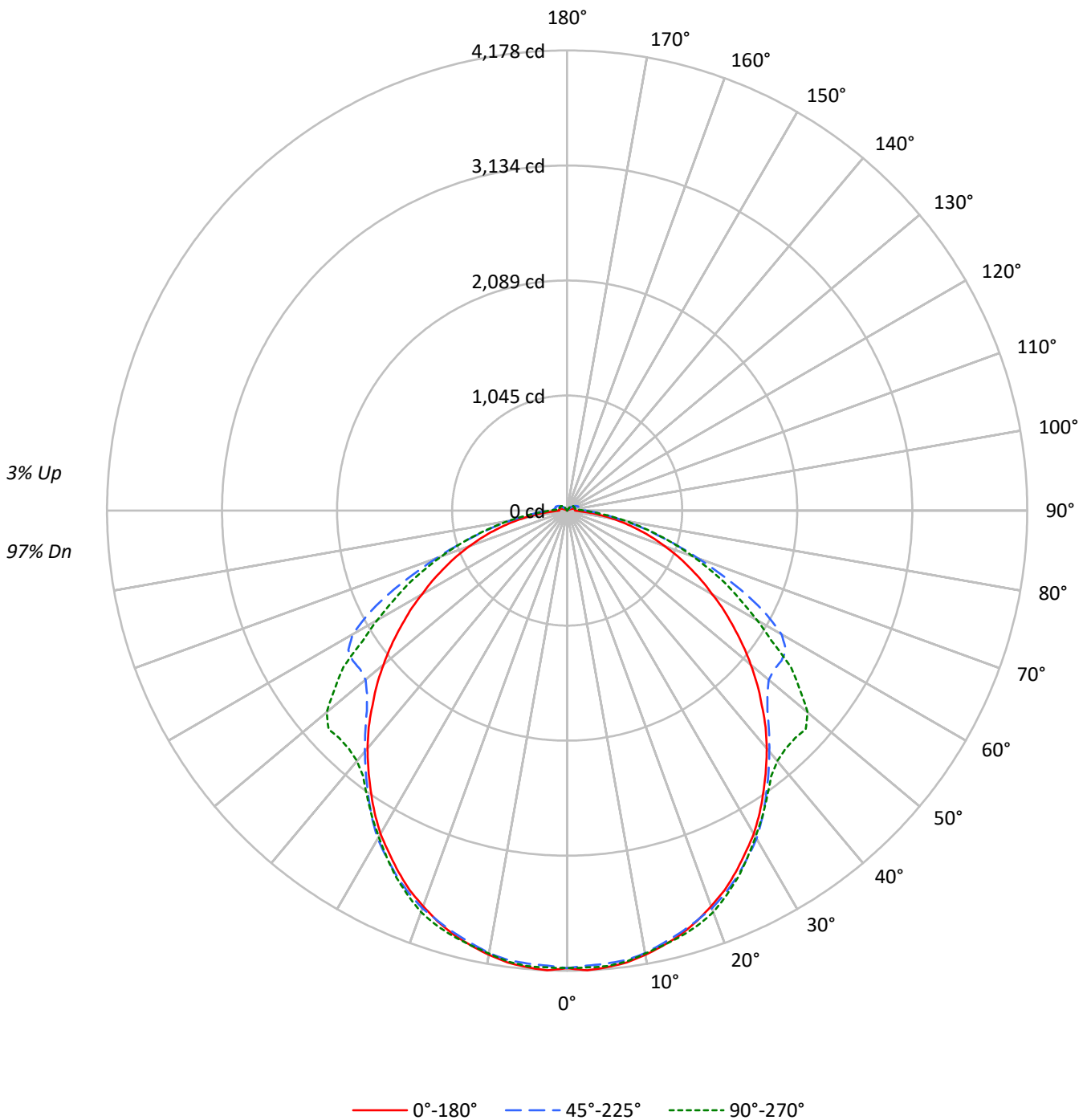
Input Watts (W): 101.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	55
4	81	69	60	53	79	67	59	53	64	57	51	62	56	50	59	54	49	47
5	75	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°	10731	10731	10731
5°	10774	10476	10462
10°	10707	10251	10118
15°	10604	9946	9821
20°	10431	9682	9513
25°	10229	9344	9064
30°	9991	8968	8555
35°	9666	8455	8095
40°	9353	7962	7821
45°	8954	7518	8012
50°	8542	7401	8198
55°	8083	7887	7573
60°	7610	8107	6525
65°	7186	7093	5718
70°	6744	5643	4778
75°	6204	4328	3799
80°	5505	3164	2769
85°	4536	2275	1762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.2	3.2
10°-20°	1126.3	9.1
20°-30°	1683.5	13.6
30°-40°	1972.3	15.9
40°-50°	2064.0	16.7
50°-60°	1996.3	16.1
60°-70°	1551.9	12.5
70°-80°	915.5	7.4
80°-90°	329.9	2.7
90°-100°	123.0	1.0
100°-110°	92.2	0.7
110°-120°	71.3	0.6
120°-130°	45.4	0.4
130°-140°	23.4	0.2
140°-150°	4.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3204.1	25.9
0°-40°	5176.4	41.8
0°-60°	9236.7	74.5
0°-90°	12033.9	97.1
90°-120°	286.5	2.3
90°-150°	360.0	2.9
90°-180°	360.0	2.9
0°-180°	12393.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4154	4154	4154	4154	4154	
5°	4162	4142	4128	4164	4152	395
15°	3986	3998	3968	4016	4000	1123
25°	3622	3638	3660	3688	3674	1668
35°	3108	3148	3150	3168	3166	1945
45°	2500	2544	2572	2818	2924	1931
55°	1846	1910	2376	2534	2482	1654
65°	1226	1474	1782	1592	1604	1218
75°	668	998	838	848	854	710
85°	188	296	296	294	286	202
90°	72	154	170	162	152	44
95°	74	112	124	108	96	59
105°	60	88	108	86	74	63
115°	30	58	96	82	72	32
125°	12	22	66	72	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4154	4154	4154	4154	4154
2.5°	4178	4158	4136	4162	4152
5°	4162	4142	4128	4164	4152
7.5°	4138	4124	4116	4146	4130
10°	4096	4090	4080	4110	4084
12.5°	4044	4050	4024	4058	4042
15°	3986	3998	3968	4016	4000
17.5°	3910	3924	3906	3966	3948
20°	3822	3830	3842	3884	3880
22.5°	3732	3738	3758	3790	3780
25°	3622	3638	3660	3688	3674
27.5°	3504	3528	3550	3572	3548
30°	3388	3400	3440	3438	3420
32.5°	3254	3284	3300	3294	3296
35°	3108	3148	3150	3168	3166
37.5°	2964	3008	3002	3036	3042
40°	2820	2850	2856	2916	2968
42.5°	2666	2696	2712	2838	2934
45°	2500	2544	2572	2818	2924
47.5°	2344	2384	2464	2818	2938
50°	2176	2224	2390	2812	2850
52.5°	2014	2062	2368	2726	2660
55°	1846	1910	2376	2534	2482
57.5°	1690	1780	2356	2304	2200
60°	1524	1656	2248	2048	1992
62.5°	1378	1556	2040	1804	1784
65°	1226	1474	1782	1592	1604
67.5°	1088	1400	1512	1398	1406
70°	942	1312	1260	1214	1212
72.5°	806	1186	1040	1026	1032
75°	668	998	838	848	854
77.5°	542	806	672	684	684
80°	412	602	514	536	538
82.5°	296	430	392	404	394
85°	188	296	296	294	286
87.5°	106	204	216	214	204
90°	72	154	170	162	152
92.5°	72	130	142	128	118
95°	74	112	124	108	96
97.5°	72	104	116	96	84
100°	70	96	112	90	78
102.5°	66	92	110	86	74
105°	60	88	108	86	74
107.5°	52	82	108	86	74
110°	46	74	106	84	72



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	38	66	102	84	72
115°	30	58	96	82	72
117.5°	26	48	90	82	72
120°	20	40	84	78	70
122.5°	16	30	76	76	68
125°	12	22	66	72	68
127.5°	10	16	58	68	66
130°	8	10	50	64	62
132.5°	6	6	42	58	58
135°	6	4	34	52	54
137.5°	4	4	26	44	48
140°	4	4	20	38	42
142.5°	4	4	14	30	34
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)