

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: P233263

Luminaire Tested: **2VT3-LD5-4-G-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VT3-LD5-4-G-UNV-L840-CD1-U  
Description: 2FT VT3 GENRAL APPLICATION, 4000LM  
Light Source: (196) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

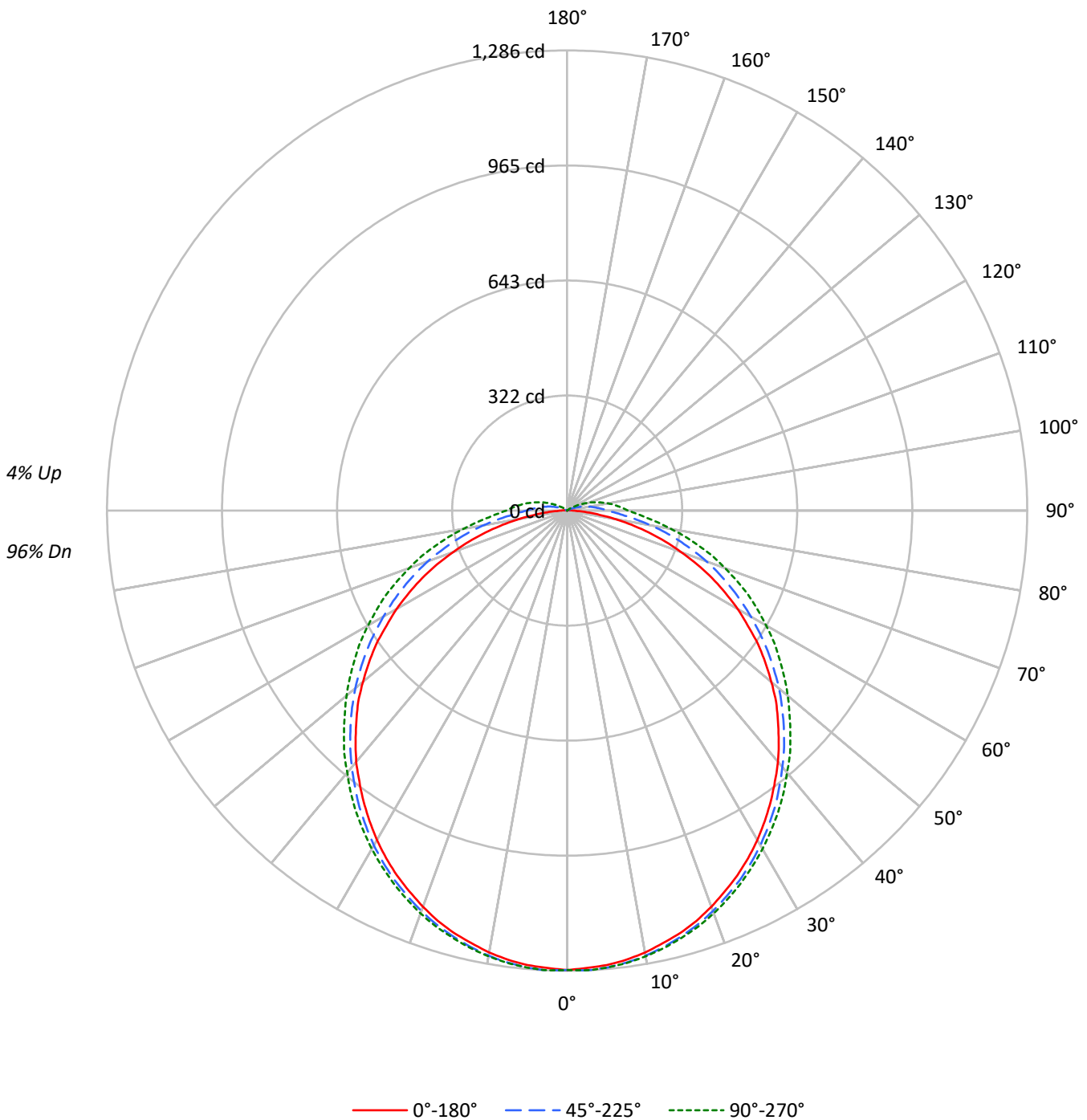
Lumens per Lamp: N/A  
Luminaire Lumens: 4058.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 32.12  
Input Voltage (V): NR  
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	96
1	107	101	97	92	103	99	94	90	94	90	87	89	86	83	85	82	80	78
2	96	88	80	74	93	85	79	73	81	76	71	77	73	69	74	70	66	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	58	52	48	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	24	50	37	30	24	36	29	24	35	28	24	34	28	23	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16586	16586	16586
5°	15812	14006	13640
10°	15065	12034	11516
15°	14341	10479	9899
20°	13613	9211	8623
25°	12902	8140	7562
30°	12190	7214	6666
35°	11463	6395	5894
40°	10761	5653	5204
45°	10006	4987	4604
50°	9238	4382	4066
55°	8421	3803	3568
60°	7483	3260	3112
65°	6454	2755	2686
70°	5251	2276	2251
75°	4001	1797	1841
80°	2615	1344	1441
85°	1194	939	1102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.6	3.0
10°-20°	347.3	8.6
20°-30°	524.6	12.9
30°-40°	632.3	15.6
40°-50°	661.6	16.3
50°-60°	613.3	15.1
60°-70°	497.5	12.3
70°-80°	334.4	8.2
80°-90°	171.4	4.2
90°-100°	88.6	2.2
100°-110°	46.0	1.1
110°-120°	17.0	0.4
120°-130°	2.3	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	993.5	24.5
0°-40°	1625.8	40.1
0°-60°	2900.7	71.5
0°-90°	3904.0	96.2
90°-120°	151.6	3.7
90°-150°	153.9	3.8
90°-180°	154.0	3.8
0°-180°	4058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1275	1277	1282	1283	1282	121
15°	1222	1226	1232	1236	1236	345
25°	1125	1129	1140	1147	1149	518
35°	992	998	1012	1022	1028	621
45°	833	839	856	874	882	643
55°	652	659	684	713	724	581
65°	447	463	503	544	559	441
75°	236	267	323	365	381	250
85°	56	103	161	205	220	63
90°	16	57	113	155	170	10
95°	10	33	85	127	142	8
105°	5	7	42	76	89	5
115°	2	2	10	32	41	2
125°	1	0	0	3	7	1
135°	1	0	0	0	0	0
145°	0	0	0	0	0	0
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°	1284.1	1284.1	1284.1	1284.1	1284.1
2.5°	1279.1	1281.1	1286.1	1287.1	1286.1
5°	1275.1	1277.1	1282.1	1283.1	1282.1
7.5°	1266.1	1269.1	1274.1	1276.1	1275.1
10°	1254.1	1257.1	1263.1	1265.1	1265.1
12.5°	1238.1	1242.1	1249.1	1251.1	1252.1
15°	1222.1	1226.1	1232.1	1236.1	1236.1
17.5°	1202.1	1205.1	1213.1	1218.1	1219.1
20°	1178.1	1182.1	1191.1	1197.1	1198.1
22.5°	1152.1	1157.1	1166.1	1173.1	1174.1
25°	1125.1	1129.1	1140.1	1147.1	1149.1
27.5°	1095.1	1099.1	1111.1	1118.1	1121.1
30°	1063.1	1068.1	1080.1	1090.1	1092.1
32.5°	1028.1	1034.1	1046.1	1056.1	1060.1
35°	992.1	998.1	1012.1	1022.1	1028.1
37.5°	954.1	960.1	974.1	988.1	994.1
40°	917.1	922.1	936.1	950.1	956.1
42.5°	875.1	882.1	897.1	914.1	922.1
45°	833.1	839.1	856.1	874.1	882.1
47.5°	792.1	798.1	815.1	834.1	843.1
50°	745.1	751.1	773.1	795.1	805.1
52.5°	698.1	705.1	728.1	755.1	765.1
55°	652.1	659.1	684.1	713.1	724.1
57.5°	598.0	612.0	639.0	671.1	686.1
60°	551.0	562.0	593.0	628.0	642.0
62.5°	498.0	512.0	548.0	586.0	600.0
65°	447.0	463.0	503.0	544.0	559.0
67.5°	394.0	411.0	459.0	500.0	513.0
70°	338.0	363.0	414.0	454.0	469.0
72.5°	288.0	314.0	367.0	409.0	428.0
75°	236.0	267.0	323.0	365.0	381.0
77.5°	184.0	221.0	281.0	321.0	339.0
80°	139.0	178.0	237.0	279.0	294.0
82.5°	92.0	138.0	197.0	240.0	256.0
85°	56.0	103.0	161.0	205.0	220.0
87.5°	28.0	75.0	134.0	176.0	193.0
90°	16.0	57.0	113.0	155.0	170.0
92.5°	13.0	44.0	99.0	140.0	156.0
95°	10.0	33.0	85.0	127.0	142.0
97.5°	8.0	24.0	74.0	114.0	129.0
100°	7.0	17.0	62.0	101.0	116.0
102.5°	6.0	11.0	52.0	88.0	102.0
105°	5.0	7.0	42.0	76.0	89.0
107.5°	4.0	4.0	32.0	64.0	76.0
110°	3.0	3.0	23.0	52.0	65.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	16.0	42.0	52.0
115°	2.0	2.0	10.0	32.0	41.0
117.5°	2.0	2.0	5.0	23.0	31.0
120°	1.0	1.0	2.0	15.0	22.0
122.5°	1.0	1.0	1.0	8.0	14.0
125°	1.0	0.0	0.0	3.0	7.0
127.5°	0.0	0.0	0.0	0.0	2.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	1.0	0.0	0.0	0.0	0.0
135°	1.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
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)