

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: P233260

Luminaire Tested: **2VT3-LD5-3-G-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233260
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-LD5-3-G-UNV-L840-CD1-U
Description: 2FT VT3 GENRAL APPLICATION, 3000LM
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

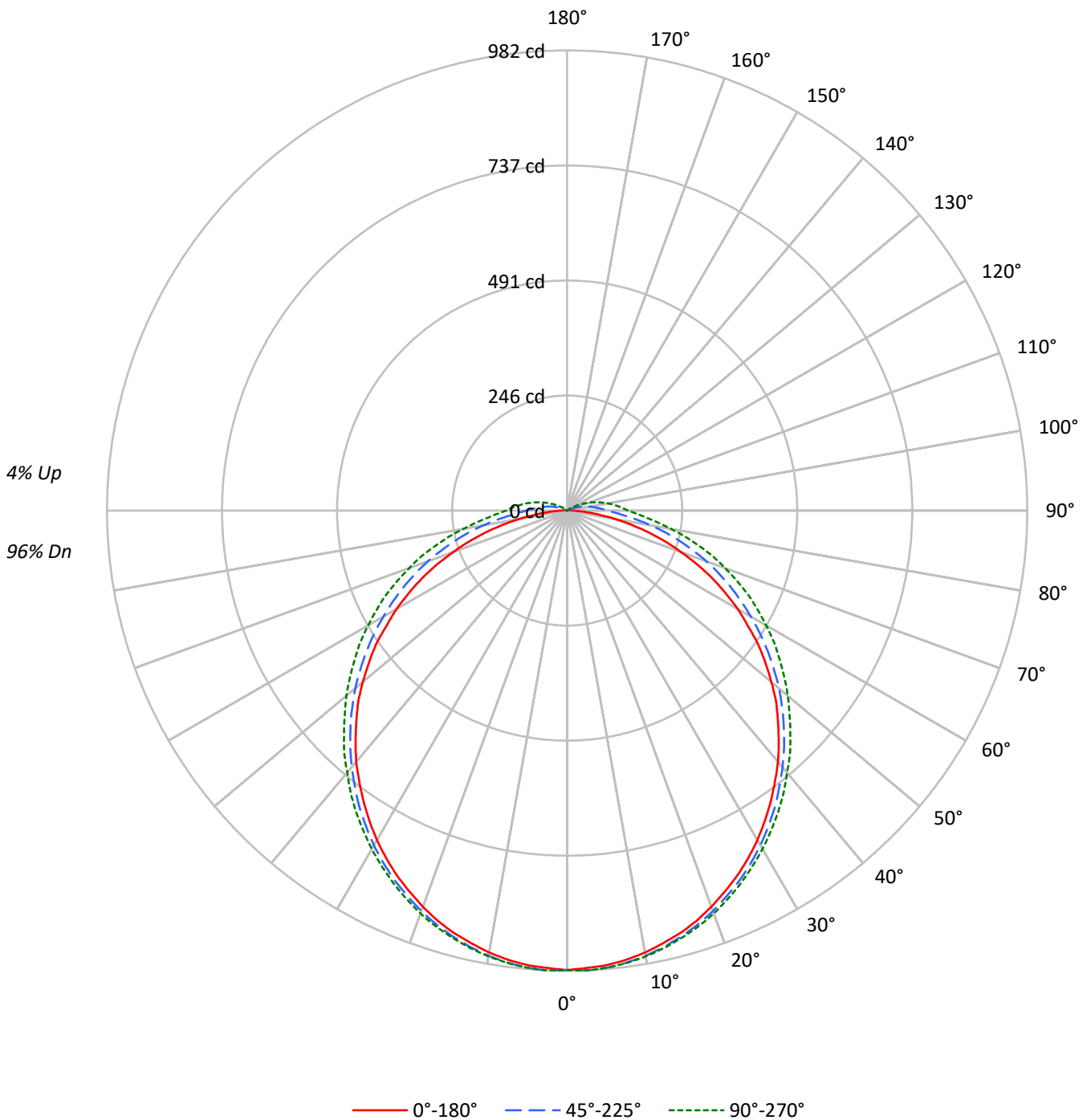
Lumens per Lamp: N/A
Luminaire Lumens: 3099.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 23.92
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°	12666	12666	12666
5°	12076	10696	10417
10°	11505	9190	8795
15°	10952	8002	7560
20°	10396	7034	6585
25°	9852	6217	5774
30°	9310	5508	5091
35°	8754	4883	4501
40°	8217	4317	3974
45°	7641	3808	3516
50°	7055	3346	3105
55°	6431	2904	2724
60°	5715	2489	2376
65°	4929	2104	2051
70°	4010	1739	1719
75°	3055	1372	1406
80°	1998	1027	1100
85°	912	717	842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.0
10°-20°	265.2	8.6
20°-30°	400.6	12.9
30°-40°	482.9	15.6
40°-50°	505.2	16.3
50°-60°	468.4	15.1
60°-70°	380.0	12.3
70°-80°	255.4	8.2
80°-90°	130.9	4.2
90°-100°	67.7	2.2
100°-110°	35.1	1.1
110°-120°	12.9	0.4
120°-130°	1.8	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°	758.7	24.5
0°-40°	1241.6	40.1
0°-60°	2215.2	71.5
0°-90°	2981.4	96.2
90°-120°	115.7	3.7
90°-150°	117.6	3.8
90°-180°	118.0	3.8
0°-180°	3099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	974	975	979	980	979	92
15°	933	936	941	944	944	263
25°	859	862	871	876	878	396
35°	758	762	773	780	785	474
45°	636	641	654	668	674	491
55°	498	503	522	544	553	443
65°	341	354	384	416	427	337
75°	180	204	247	279	291	191
85°	43	79	123	157	168	48
90°	12	44	86	118	130	8
95°	8	25	65	97	108	6
105°	4	5	32	58	68	4
115°	2	2	8	24	31	2
125°	1	0	0	2	5	0
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°	980.6	980.6	980.6	980.6	980.6
2.5°	976.8	978.3	982.2	982.9	982.2
5°	973.8	975.3	979.1	979.9	979.1
7.5°	966.9	969.2	973.0	974.5	973.8
10°	957.7	960.0	964.6	966.1	966.1
12.5°	945.5	948.6	953.9	955.4	956.2
15°	933.3	936.3	940.9	944.0	944.0
17.5°	918.0	920.3	926.4	930.2	931.0
20°	899.7	902.7	909.6	914.2	915.0
22.5°	879.8	883.6	890.5	895.9	896.6
25°	859.2	862.3	870.7	876.0	877.5
27.5°	836.3	839.3	848.5	853.9	856.1
30°	811.9	815.7	824.8	832.5	834.0
32.5°	785.1	789.7	798.9	806.5	809.6
35°	757.6	762.2	772.9	780.5	785.1
37.5°	728.6	733.2	743.9	754.6	759.2
40°	700.3	704.2	714.9	725.5	730.1
42.5°	668.3	673.6	685.1	698.1	704.2
45°	636.2	640.8	653.8	667.5	673.6
47.5°	604.9	609.5	622.4	637.0	643.8
50°	569.0	573.6	590.4	607.2	614.8
52.5°	533.1	538.4	556.0	576.6	584.3
55°	498.0	503.3	522.4	544.5	552.9
57.5°	456.7	467.4	488.0	512.5	523.9
60°	420.8	429.2	452.9	479.6	490.3
62.5°	380.3	391.0	418.5	447.5	458.2
65°	341.4	353.6	384.2	415.5	426.9
67.5°	300.9	313.9	350.6	381.9	391.8
70°	258.1	277.2	316.2	346.7	358.2
72.5°	220.0	239.8	280.3	312.4	326.9
75°	180.2	203.9	246.7	278.8	291.0
77.5°	140.5	168.8	214.6	245.2	258.9
80°	106.2	135.9	181.0	213.1	224.5
82.5°	70.3	105.4	150.5	183.3	195.5
85°	42.8	78.7	123.0	156.6	168.0
87.5°	21.4	57.3	102.3	134.4	147.4
90°	12.2	43.5	86.3	118.4	129.8
92.5°	9.9	33.6	75.6	106.9	119.1
95°	7.6	25.2	64.9	97.0	108.5
97.5°	6.1	18.3	56.5	87.1	98.5
100°	5.3	13.0	47.4	77.1	88.6
102.5°	4.6	8.4	39.7	67.2	77.9
105°	3.8	5.3	32.1	58.0	68.0
107.5°	3.1	3.1	24.4	48.9	58.0
110°	2.3	2.3	17.6	39.7	49.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	2.3	12.2	32.1	39.7
115°	1.5	1.5	7.6	24.4	31.3
117.5°	1.5	1.5	3.8	17.6	23.7
120°	0.8	0.8	1.5	11.5	16.8
122.5°	0.8	0.8	0.8	6.1	10.7
125°	0.8	0.0	0.0	2.3	5.3
127.5°	0.0	0.0	0.0	0.0	1.5
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.8	0.0	0.0	0.0	0.0
135°	0.8	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)