

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798320

Luminaire Tested: 4VT3-SL3C3-G-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4VT3-SL3C3-G-UNV-LOW-4000K
Description: Vaportite LED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

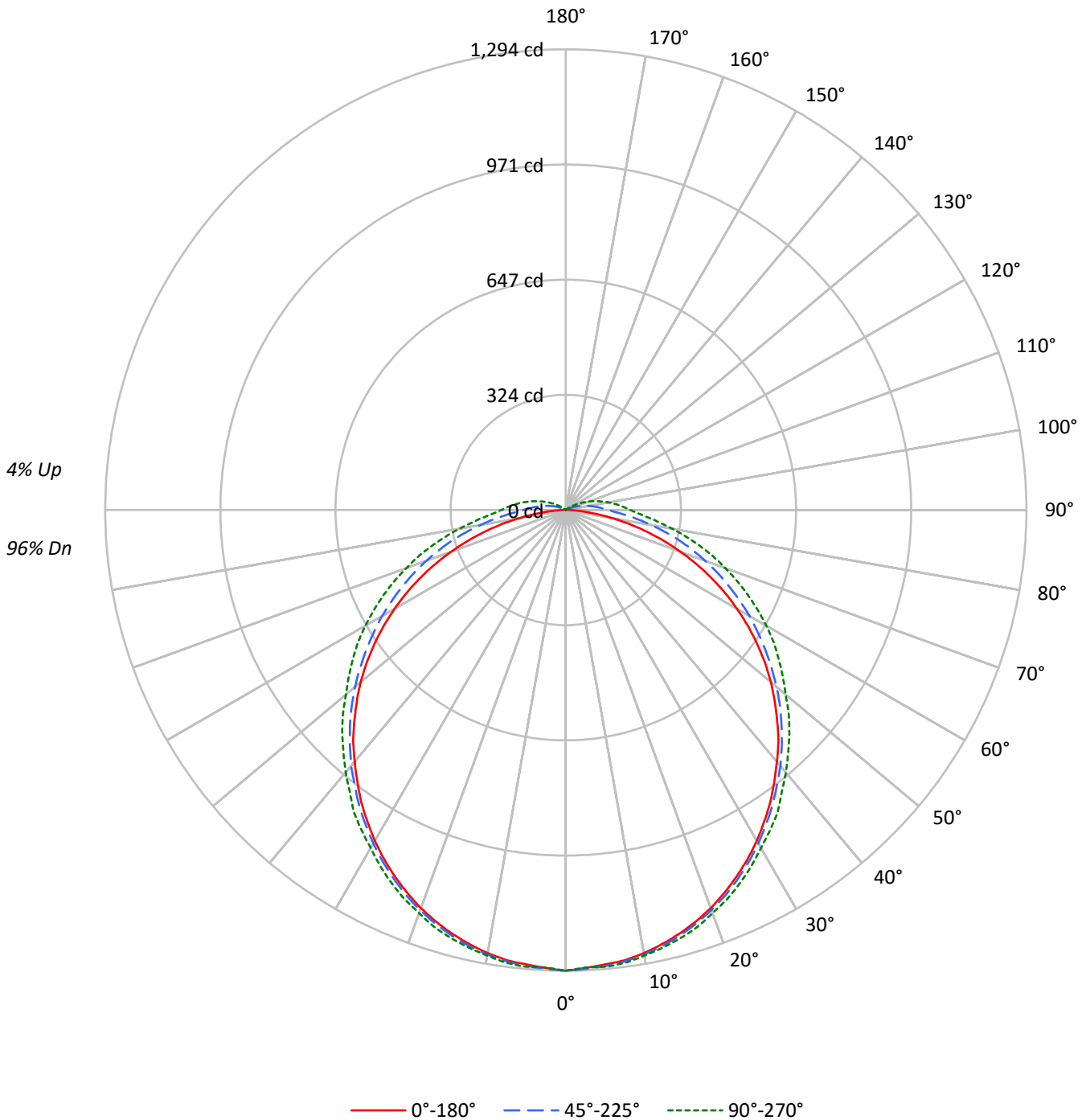
Lumens per Lamp: N/A
Luminaire Lumens: 4107.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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: 24 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	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	96
1	107	101	96	92	103	99	94	90	93	90	87	89	86	83	85	82	80	85	82	80	78
2	96	88	80	74	93	85	79	73	81	75	71	77	72	68	73	70	66	73	70	66	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	65	60	56	53
4	80	68	58	51	77	66	57	51	63	56	50	60	54	49	57	52	47	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	32	43	37	32	43	37	32	30
8	58	45	36	30	57	44	36	30	42	35	29	41	34	29	39	33	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	26	37	31	26	36	30	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6964	6964	6964
5°	6922	6944	6958
10°	6907	6929	6947
15°	6866	6896	6937
20°	6816	6850	6900
25°	6744	6788	6872
30°	6666	6720	6812
35°	6581	6652	6815
40°	6481	6590	6759
45°	6394	6527	6761
50°	6298	6472	6748
55°	6159	6417	6851
60°	5983	6415	7000
65°	5746	6437	7189
70°	5402	6562	7501
75°	4922	6860	8114
80°	4156	7562	9434
85°	3149	10559	14203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 24813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.0
10°-20°	350.4	8.5
20°-30°	529.0	12.9
30°-40°	636.9	15.5
40°-50°	665.9	16.2
50°-60°	617.4	15.0
60°-70°	502.3	12.2
70°-80°	340.5	8.3
80°-90°	177.4	4.3
90°-100°	92.8	2.3
100°-110°	48.8	1.2
110°-120°	19.1	0.5
120°-130°	3.8	0.1
130°-140°	0.1	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°	1002.0	24.4
0°-40°	1638.9	39.9
0°-60°	2922.2	71.2
0°-90°	3942.4	96.0
90°-120°	160.7	3.9
90°-150°	164.6	4.0
90°-180°	165.0	4.0
0°-180°	4107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1281	1297	1285	1289	1288	122
15°	1232	1246	1238	1246	1245	348
25°	1136	1151	1143	1152	1157	523
35°	1002	1016	1012	1026	1037	626
45°	840	855	858	877	888	648
55°	656	669	684	715	730	587
65°	451	468	506	546	564	446
75°	237	272	330	373	390	250
85°	51	105	171	216	230	59
90°	11	56	119	164	180	8
95°	7	34	90	135	152	5
105°	3	7	44	82	95	4
115°	1	1	13	37	47	1
125°	1	1	0	7	12	1
135°	0	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°	1294.0	1294.0	1294.0	1294.0	1294.0
2.5°	1287.3	1301.3	1289.9	1294.0	1285.9
5°	1281.2	1297.3	1285.3	1289.3	1287.9
7.5°	1275.2	1289.3	1278.5	1283.2	1282.6
10°	1263.8	1277.9	1267.8	1272.5	1271.2
12.5°	1249.0	1263.8	1254.4	1260.4	1259.1
15°	1232.3	1246.4	1237.7	1245.7	1245.0
17.5°	1212.2	1227.6	1218.2	1226.9	1228.3
20°	1190.0	1204.1	1196.1	1203.5	1204.8
22.5°	1163.9	1178.7	1171.3	1179.3	1183.3
25°	1135.7	1151.2	1143.1	1151.8	1157.2
27.5°	1105.6	1120.3	1113.6	1121.7	1128.4
30°	1072.7	1086.8	1081.4	1091.5	1096.2
32.5°	1037.2	1053.3	1047.2	1060.7	1067.4
35°	1001.7	1016.4	1012.4	1026.5	1037.2
37.5°	962.1	978.2	974.2	989.6	997.0
40°	922.5	938.6	938.0	952.7	962.1
42.5°	884.3	895.7	897.7	916.5	924.6
45°	840.1	854.8	857.5	876.9	888.3
47.5°	796.5	810.6	815.9	835.4	849.5
50°	752.2	765.0	773.0	794.5	805.9
52.5°	705.3	717.4	728.1	754.3	768.3
55°	656.4	669.1	683.9	714.7	730.1
57.5°	606.8	620.2	639.6	673.1	692.6
60°	555.8	572.6	596.0	630.9	650.3
62.5°	504.2	520.9	550.4	588.0	607.4
65°	451.2	468.0	505.5	545.7	564.5
67.5°	397.6	419.0	461.3	504.2	520.9
70°	343.3	368.1	417.0	460.6	476.7
72.5°	289.6	319.1	373.4	417.0	434.5
75°	236.7	271.5	329.9	372.8	390.2
77.5°	184.4	225.3	286.3	329.9	346.0
80°	134.1	181.0	244.0	288.3	304.4
82.5°	88.5	141.5	206.5	250.7	264.2
85°	51.0	104.6	171.0	215.9	230.0
87.5°	23.5	75.1	140.8	185.7	201.1
90°	11.4	55.6	118.7	164.3	180.4
92.5°	8.7	43.6	103.9	149.5	165.6
95°	7.4	33.5	90.5	134.8	151.5
97.5°	6.0	24.1	77.8	120.7	136.8
100°	4.7	16.8	66.4	107.3	122.7
102.5°	4.0	10.7	55.0	93.9	107.9
105°	3.4	6.7	44.2	81.8	95.2
107.5°	2.7	4.0	34.9	69.1	81.8
110°	2.0	2.0	26.1	57.7	69.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	18.8	46.3	57.7
115°	1.3	1.3	12.7	36.9	46.9
117.5°	1.3	1.3	7.4	27.5	36.2
120°	0.7	0.7	3.4	18.8	26.8
122.5°	0.7	0.7	0.7	12.7	18.8
125°	0.7	0.7	0.0	7.4	12.1
127.5°	0.7	0.7	0.0	3.4	6.7
130°	0.7	0.7	0.0	0.7	2.7
132.5°	0.7	0.7	0.0	0.0	0.0
135°	0.0	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)