

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: P798319

Luminaire Tested: 4VT3-SL3C3-G-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798319
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-3500K
Description: Vaportite LED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

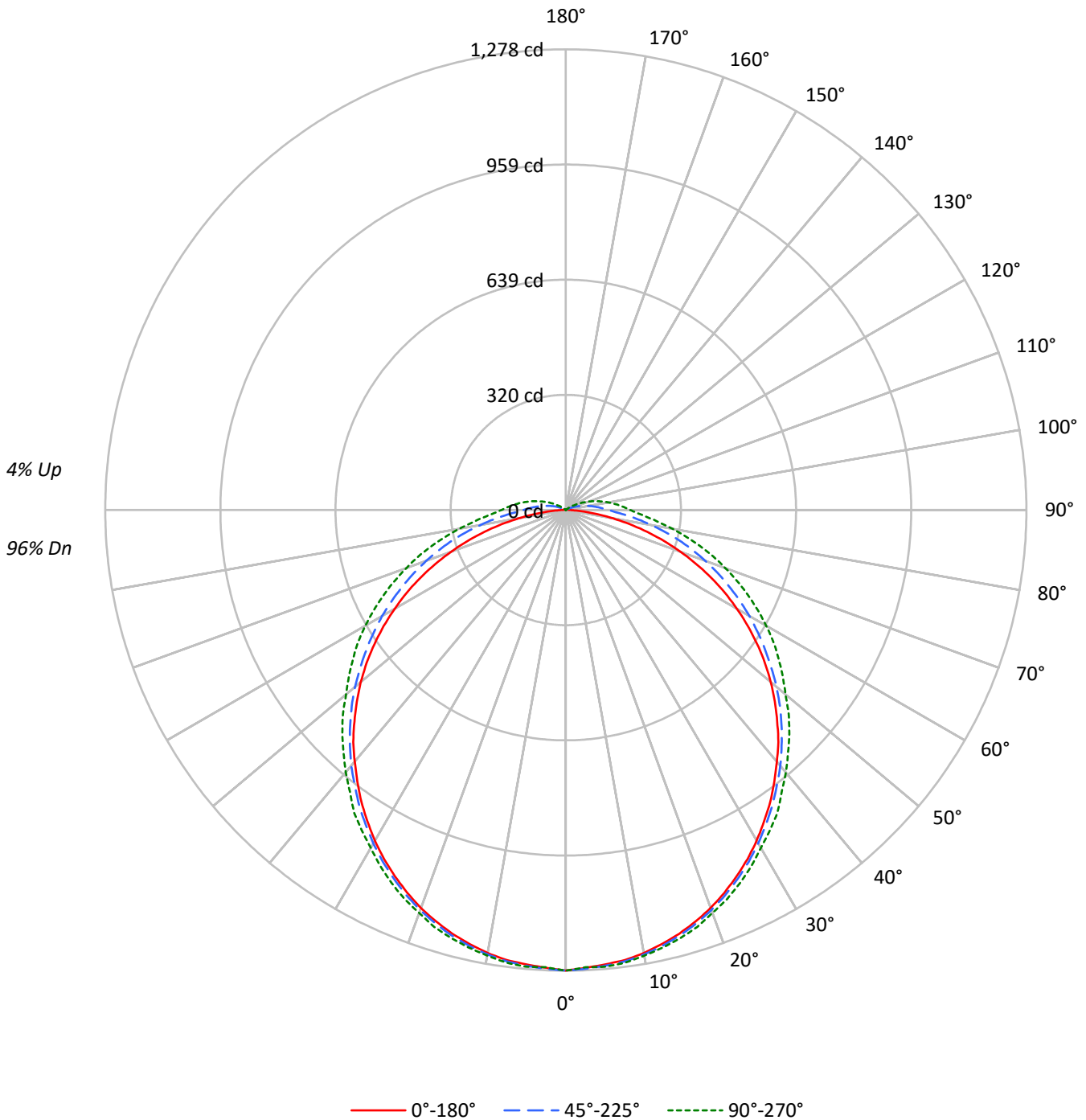
Lumens per Lamp: N/A
Luminaire Lumens: 4055.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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°	6876	6876	6876
5°	6834	6856	6870
10°	6819	6841	6859
15°	6779	6809	6849
20°	6730	6763	6813
25°	6659	6702	6785
30°	6582	6635	6726
35°	6498	6568	6728
40°	6400	6506	6674
45°	6313	6444	6676
50°	6219	6390	6662
55°	6081	6336	6764
60°	5907	6335	6912
65°	5673	6356	7098
70°	5333	6478	7407
75°	4860	6773	8012
80°	4104	7469	9314
85°	3106	10424	14024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 24504 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.0
10°-20°	346.0	8.5
20°-30°	522.3	12.9
30°-40°	628.9	15.5
40°-50°	657.5	16.2
50°-60°	609.5	15.0
60°-70°	495.9	12.2
70°-80°	336.2	8.3
80°-90°	175.2	4.3
90°-100°	91.7	2.3
100°-110°	48.2	1.2
110°-120°	18.9	0.5
120°-130°	3.7	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°	989.3	24.4
0°-40°	1618.2	39.9
0°-60°	2885.2	71.2
0°-90°	3892.5	96.0
90°-120°	158.7	3.9
90°-150°	162.5	4.0
90°-180°	163.0	4.0
0°-180°	4055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1265	1281	1269	1273	1272	120
15°	1217	1231	1222	1230	1229	343
25°	1121	1137	1129	1137	1142	517
35°	989	1004	1000	1014	1024	618
45°	829	844	847	866	877	640
55°	648	661	675	706	721	579
65°	446	462	499	539	557	440
75°	234	268	326	368	385	247
85°	50	103	169	213	227	59
90°	11	55	117	162	178	7
95°	7	33	89	133	150	5
105°	3	7	44	81	94	4
115°	1	1	13	36	46	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°	1277.6	1277.6	1277.6	1277.6	1277.6
2.5°	1271.0	1284.9	1273.6	1277.6	1269.6
5°	1265.0	1280.9	1269.0	1273.0	1271.6
7.5°	1259.1	1273.0	1262.4	1267.0	1266.3
10°	1247.8	1261.7	1251.8	1256.4	1255.1
12.5°	1233.2	1247.8	1238.5	1244.5	1243.2
15°	1216.7	1230.6	1222.0	1229.9	1229.3
17.5°	1196.8	1212.1	1202.8	1211.4	1212.7
20°	1175.0	1188.9	1180.9	1188.2	1189.5
22.5°	1149.2	1163.7	1156.4	1164.4	1168.4
25°	1121.4	1136.6	1128.6	1137.3	1142.5
27.5°	1091.6	1106.1	1099.5	1107.5	1114.1
30°	1059.1	1073.0	1067.7	1077.7	1082.3
32.5°	1024.1	1039.9	1034.0	1047.2	1053.8
35°	989.0	1003.5	999.6	1013.5	1024.1
37.5°	949.9	965.8	961.8	977.1	984.3
40°	910.9	926.7	926.1	940.6	949.9
42.5°	873.1	884.4	886.4	904.9	912.8
45°	829.4	844.0	846.6	865.8	877.1
47.5°	786.4	800.3	805.6	824.8	838.7
50°	742.7	755.3	763.2	784.4	795.7
52.5°	696.4	708.3	718.9	744.7	758.6
55°	648.1	660.6	675.2	705.7	720.9
57.5°	599.1	612.3	631.5	664.6	683.8
60°	548.8	565.3	588.5	622.9	642.1
62.5°	497.8	514.3	543.5	580.5	599.7
65°	445.5	462.0	499.1	538.8	557.4
67.5°	392.5	413.7	455.4	497.8	514.3
70°	338.9	363.4	411.7	454.8	470.7
72.5°	286.0	315.1	368.7	411.7	429.0
75°	233.7	268.1	325.7	368.1	385.3
77.5°	182.0	222.4	282.7	325.7	341.6
80°	132.4	178.7	241.0	284.6	300.5
82.5°	87.4	139.7	203.9	247.6	260.8
85°	50.3	103.3	168.8	213.2	227.1
87.5°	23.2	74.1	139.0	183.4	198.6
90°	11.3	54.9	117.2	162.2	178.1
92.5°	8.6	43.0	102.6	147.6	163.5
95°	7.3	33.1	89.4	133.1	149.6
97.5°	6.0	23.8	76.8	119.2	135.0
100°	4.6	16.5	65.5	105.9	121.1
102.5°	4.0	10.6	54.3	92.7	106.6
105°	3.3	6.6	43.7	80.8	94.0
107.5°	2.6	4.0	34.4	68.2	80.8
110°	2.0	2.0	25.8	56.9	68.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	18.5	45.7	56.9
115°	1.3	1.3	12.6	36.4	46.3
117.5°	1.3	1.3	7.3	27.1	35.7
120°	0.7	0.7	3.3	18.5	26.5
122.5°	0.7	0.7	0.7	12.6	18.5
125°	0.7	0.7	0.0	7.3	11.9
127.5°	0.7	0.7	0.0	3.3	6.6
130°	0.7	0.7	0.0	0.7	2.6
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)