

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: P798321

Luminaire Tested: 4VT3-SL3C3-G-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798321
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-MID-3000K
Description: Vaportite LED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

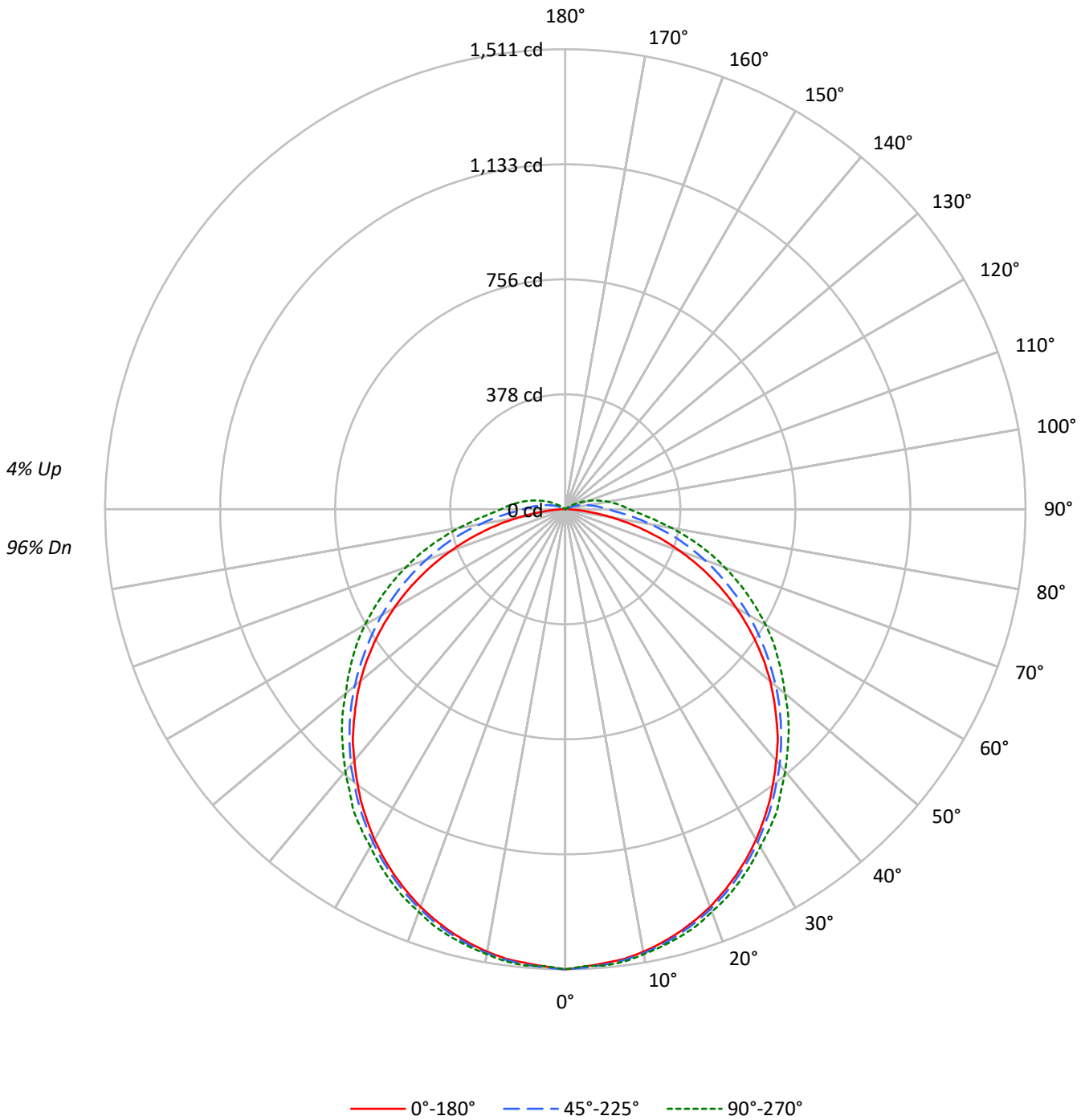
Lumens per Lamp: N/A
Luminaire Lumens: 4796.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (A_{in}): 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°	8132	8132	8132
5°	8083	8109	8125
10°	8065	8091	8112
15°	8018	8053	8101
20°	7959	7999	8058
25°	7876	7927	8024
30°	7785	7848	7955
35°	7685	7767	7958
40°	7569	7695	7893
45°	7467	7622	7896
50°	7355	7558	7880
55°	7192	7493	8000
60°	6986	7492	8174
65°	6710	7517	8395
70°	6308	7663	8760
75°	5748	8010	9476
80°	4854	8833	11015
85°	3674	12326	16580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 28983 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.0
10°-20°	409.2	8.5
20°-30°	617.8	12.9
30°-40°	743.8	15.5
40°-50°	777.7	16.2
50°-60°	720.9	15.0
60°-70°	586.5	12.2
70°-80°	397.6	8.3
80°-90°	207.2	4.3
90°-100°	108.4	2.3
100°-110°	56.9	1.2
110°-120°	22.3	0.5
120°-130°	4.4	0.1
130°-140°	0.2	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°	1170.1	24.4
0°-40°	1913.9	39.9
0°-60°	3412.5	71.2
0°-90°	4603.8	96.0
90°-120°	187.7	3.9
90°-150°	192.2	4.0
90°-180°	192.0	4.0
0°-180°	4796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1496	1515	1501	1506	1504	142
15°	1439	1456	1445	1455	1454	406
25°	1326	1344	1335	1345	1351	611
35°	1170	1187	1182	1199	1211	731
45°	981	998	1001	1024	1037	757
55°	766	781	799	835	853	685
65°	527	546	590	637	659	521
75°	276	317	385	435	456	292
85°	60	122	200	252	268	69
90°	13	65	139	192	211	9
95°	9	39	106	157	177	6
105°	4	8	52	96	111	4
115°	2	2	15	43	55	2
125°	1	1	0	9	14	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

TEST NUMBER: P798321

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.0	1511.0	1511.0	1511.0	1511.0
2.5°	1503.2	1519.7	1506.4	1511.0	1501.7
5°	1496.2	1515.0	1500.9	1505.6	1504.0
7.5°	1489.1	1505.6	1493.0	1498.5	1497.7
10°	1475.8	1492.3	1480.5	1486.0	1484.4
12.5°	1458.6	1475.8	1464.9	1471.9	1470.3
15°	1439.0	1455.5	1445.3	1454.7	1453.9
17.5°	1415.5	1433.5	1422.6	1432.8	1434.3
20°	1389.7	1406.1	1396.7	1405.4	1406.9
22.5°	1359.2	1376.4	1367.8	1377.2	1381.9
25°	1326.3	1344.3	1334.9	1345.1	1351.3
27.5°	1291.0	1308.3	1300.4	1309.8	1317.7
30°	1252.7	1269.1	1262.9	1274.6	1280.1
32.5°	1211.2	1230.0	1222.9	1238.6	1246.4
35°	1169.7	1186.9	1182.2	1198.7	1211.2
37.5°	1123.5	1142.3	1137.6	1155.6	1164.2
40°	1077.3	1096.1	1095.3	1112.5	1123.5
42.5°	1032.7	1046.0	1048.3	1070.3	1079.7
45°	981.0	998.2	1001.4	1024.1	1037.4
47.5°	930.1	946.6	952.8	975.5	992.0
50°	878.4	893.3	902.7	927.8	941.1
52.5°	823.6	837.7	850.3	880.8	897.2
55°	766.5	781.4	798.6	834.6	852.6
57.5°	708.5	724.2	746.9	786.1	808.8
60°	649.0	668.6	696.0	736.7	759.4
62.5°	588.8	608.3	642.8	686.6	709.3
65°	526.9	546.5	590.3	637.3	659.2
67.5°	464.3	489.3	538.7	588.8	608.3
70°	400.9	429.8	487.0	537.9	556.7
72.5°	338.2	372.7	436.1	487.0	507.3
75°	276.4	317.1	385.2	435.3	455.7
77.5°	215.3	263.1	334.3	385.2	404.0
80°	156.6	211.4	285.0	336.7	355.4
82.5°	103.3	165.2	241.1	292.8	308.5
85°	59.5	122.1	199.6	252.1	268.5
87.5°	27.4	87.7	164.4	216.9	234.9
90°	13.3	65.0	138.6	191.8	210.6
92.5°	10.2	50.9	121.4	174.6	193.4
95°	8.6	39.1	105.7	157.4	176.9
97.5°	7.0	28.2	90.8	140.9	159.7
100°	5.5	19.6	77.5	125.3	143.3
102.5°	4.7	12.5	64.2	109.6	126.1
105°	3.9	7.8	51.7	95.5	111.2
107.5°	3.1	4.7	40.7	80.6	95.5
110°	2.3	2.3	30.5	67.3	81.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	2.3	21.9	54.0	67.3
115°	1.6	1.6	14.9	43.1	54.8
117.5°	1.6	1.6	8.6	32.1	42.3
120°	0.8	0.8	3.9	21.9	31.3
122.5°	0.8	0.8	0.8	14.9	21.9
125°	0.8	0.8	0.0	8.6	14.1
127.5°	0.8	0.8	0.0	3.9	7.8
130°	0.8	0.8	0.0	0.8	3.1
132.5°	0.8	0.8	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)