

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: P798157

Luminaire Tested: 14GRSCT3-F1-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-F1-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

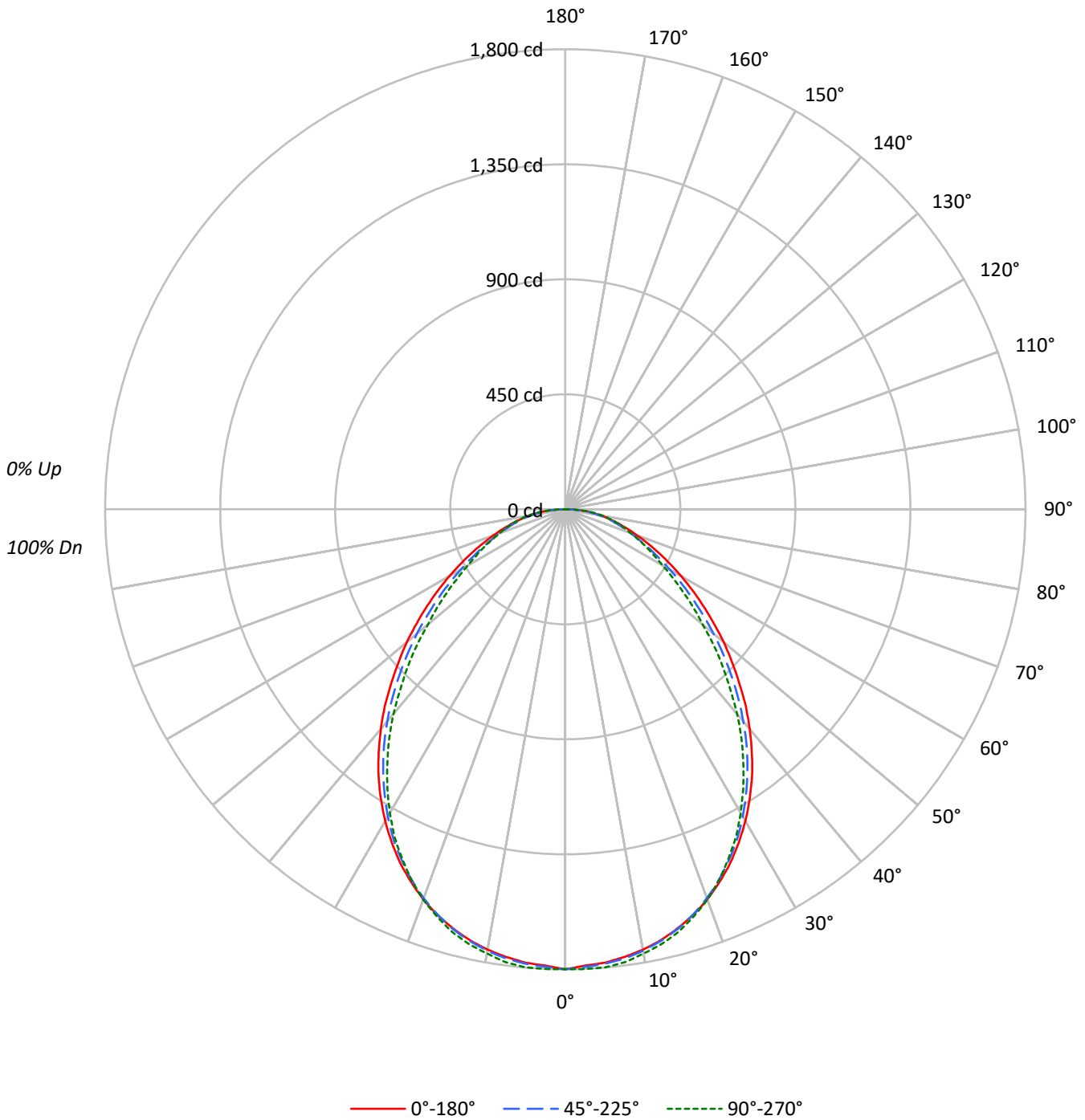
Lumens per Lamp: N/A
Luminaire Lumens: 4048.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	64	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	50	50	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	44	44	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	40	40	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	36	36	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	33	33	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4842	4842	4842
5°	4810	4822	4859
10°	4780	4793	4823
15°	4730	4737	4770
20°	4651	4638	4654
25°	4535	4498	4481
30°	4377	4313	4263
35°	4185	4080	3988
40°	3942	3804	3673
45°	3663	3492	3316
50°	3386	3170	2937
55°	3092	2844	2635
60°	2819	2540	2368
65°	2560	2297	2230
70°	2357	2127	2146
75°	2232	2076	2213
80°	2214	2118	2369
85°	2331	2235	2581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3663 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	4.2
10°-20°	479.8	11.9
20°-30°	698.0	17.2
30°-40°	776.6	19.2
40°-50°	708.8	17.5
50°-60°	545.9	13.5
60°-70°	367.9	9.1
70°-80°	220.0	5.4
80°-90°	81.1	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
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°	1347.7	33.3
0°-40°	2124.3	52.5
0°-60°	3379.0	83.5
0°-90°	4048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1800	1800	1800	1800	1800	
5°	1781	1800	1785	1788	1799	169
15°	1698	1712	1700	1702	1712	478
25°	1527	1534	1515	1509	1509	702
35°	1274	1270	1242	1222	1214	794
45°	962	956	918	884	871	743
55°	659	642	606	572	562	591
65°	402	386	361	350	350	401
75°	215	208	200	207	213	229
85°	76	72	72	84	84	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1799.5	1799.5	1799.5	1799.5	1799.5
2.5°	1787.0	1806.9	1792.0	1795.7	1800.1
5°	1780.7	1799.5	1785.1	1787.6	1798.8
7.5°	1767.0	1787.0	1772.6	1774.5	1787.6
10°	1749.5	1767.6	1753.9	1755.8	1765.1
12.5°	1727.1	1743.3	1729.6	1730.8	1742.0
15°	1697.7	1712.1	1700.2	1701.5	1712.1
17.5°	1664.0	1677.1	1662.1	1662.8	1670.3
20°	1624.1	1635.9	1619.7	1616.0	1625.3
22.5°	1577.9	1587.2	1570.4	1564.8	1571.0
25°	1527.3	1534.2	1514.8	1508.6	1509.2
27.5°	1469.9	1475.5	1456.2	1444.3	1445.6
30°	1408.7	1410.0	1388.1	1374.4	1371.9
32.5°	1342.6	1343.2	1317.0	1302.0	1295.1
35°	1273.9	1270.2	1242.1	1221.5	1214.0
37.5°	1199.0	1194.6	1165.3	1140.3	1132.2
40°	1122.2	1116.0	1082.9	1056.1	1045.5
42.5°	1044.8	1036.7	1000.5	971.8	954.3
45°	962.5	955.6	917.5	884.4	871.3
47.5°	884.4	875.1	836.4	801.4	787.7
50°	808.9	795.2	757.1	720.3	701.6
52.5°	732.1	717.2	678.5	642.9	631.0
55°	659.1	642.3	606.1	572.4	561.7
57.5°	589.2	572.4	536.8	507.4	497.5
60°	523.7	504.9	471.9	448.1	440.0
62.5°	460.6	442.5	414.4	395.7	392.0
65°	402.0	385.7	360.8	349.5	350.2
67.5°	348.9	334.6	314.0	310.2	308.3
70°	299.6	287.7	270.3	272.1	272.8
72.5°	255.3	245.9	235.9	238.4	242.2
75°	214.7	207.8	199.7	207.2	212.8
77.5°	177.9	171.0	167.9	176.6	181.6
80°	142.9	137.3	136.7	146.7	152.9
82.5°	108.6	104.9	104.2	115.5	119.8
85°	75.5	72.4	72.4	84.3	83.6
87.5°	40.6	39.3	36.8	44.3	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)