

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: P798158

Luminaire Tested: 14GRSCT3-F1-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798158
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

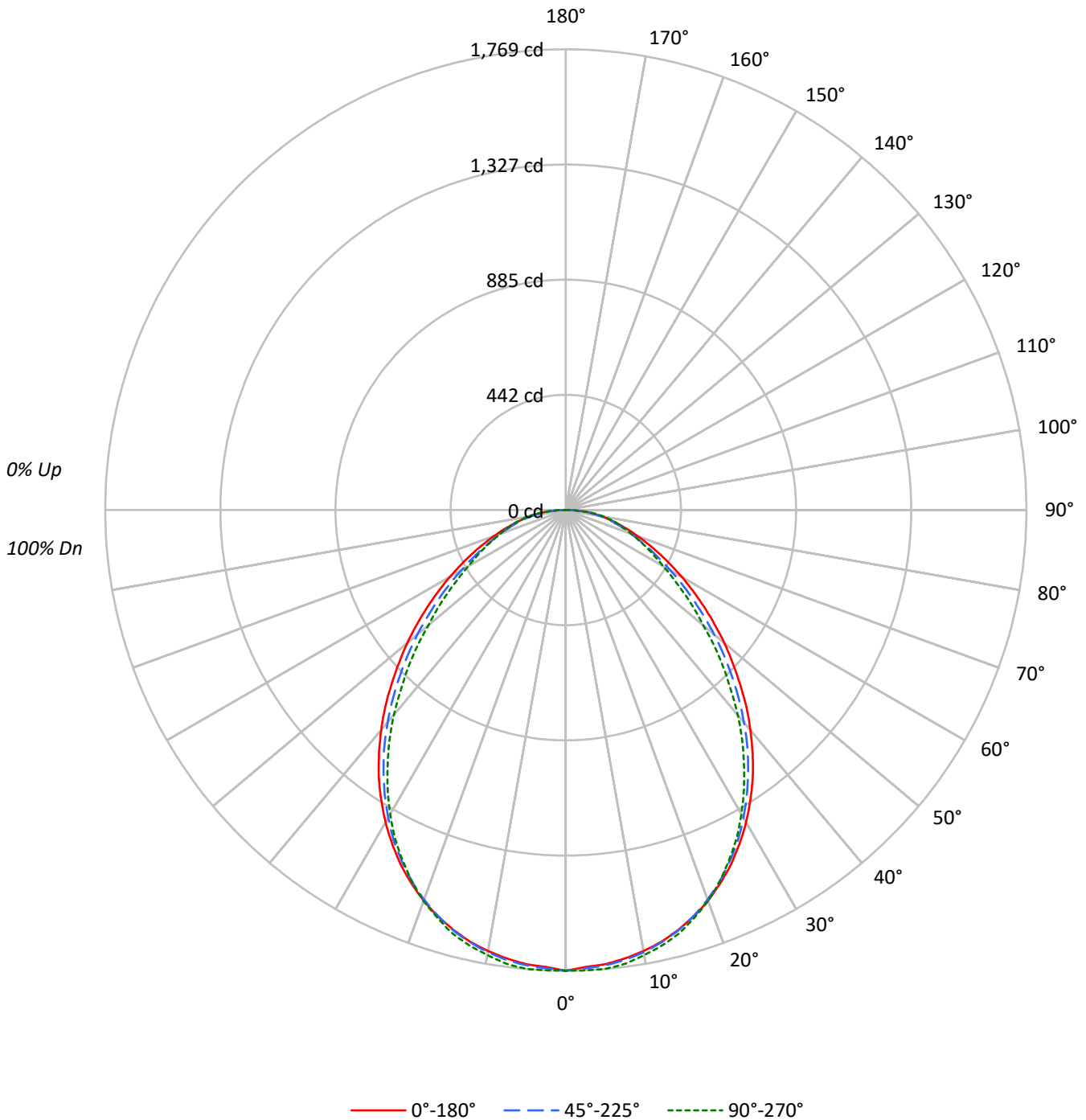
Lumens per Lamp: N/A
Luminaire Lumens: 3979.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62	62	62	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48	48	48	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42	42	42	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31	31	31	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4760	4760	4760
5°	4728	4740	4776
10°	4699	4711	4741
15°	4649	4656	4688
20°	4572	4559	4575
25°	4458	4421	4405
30°	4303	4240	4190
35°	4114	4011	3920
40°	3875	3739	3610
45°	3600	3432	3260
50°	3329	3116	2887
55°	3040	2795	2591
60°	2770	2496	2328
65°	2516	2258	2192
70°	2317	2090	2109
75°	2195	2041	2175
80°	2177	2083	2329
85°	2291	2198	2538

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3600 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	4.2
10°-20°	471.6	11.9
20°-30°	686.1	17.2
30°-40°	763.4	19.2
40°-50°	696.7	17.5
50°-60°	536.6	13.5
60°-70°	361.6	9.1
70°-80°	216.2	5.4
80°-90°	79.8	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°	1324.7	33.3
0°-40°	2088.1	52.5
0°-60°	3321.4	83.5
0°-90°	3979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1750	1769	1755	1757	1768	166
15°	1669	1683	1671	1672	1683	470
25°	1501	1508	1489	1483	1484	690
35°	1252	1248	1221	1201	1193	781
45°	946	939	902	869	856	731
55°	648	631	596	563	552	581
65°	395	379	355	344	344	395
75°	211	204	196	204	209	225
85°	74	71	71	83	82	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1768.8	1768.8	1768.8	1768.8	1768.8
2.5°	1756.5	1776.1	1761.4	1765.1	1769.4
5°	1750.4	1768.8	1754.7	1757.1	1768.2
7.5°	1736.9	1756.5	1742.4	1744.2	1757.1
10°	1719.7	1737.5	1724.0	1725.8	1735.0
12.5°	1697.6	1713.6	1700.1	1701.3	1712.3
15°	1668.8	1682.9	1671.2	1672.5	1682.9
17.5°	1635.7	1648.5	1633.8	1634.4	1641.8
20°	1596.4	1608.0	1592.1	1588.4	1597.6
22.5°	1551.0	1560.2	1543.6	1538.1	1544.2
25°	1501.3	1508.0	1489.0	1482.9	1483.5
27.5°	1444.8	1450.4	1431.3	1419.7	1420.9
30°	1384.7	1385.9	1364.5	1351.0	1348.5
32.5°	1319.7	1320.3	1294.5	1279.8	1273.1
35°	1252.2	1248.5	1220.9	1200.7	1193.3
37.5°	1178.6	1174.3	1145.4	1120.9	1112.9
40°	1103.1	1097.0	1064.5	1038.1	1027.7
42.5°	1027.0	1019.1	983.5	955.3	938.1
45°	946.1	939.3	901.9	869.4	856.5
47.5°	869.4	860.2	822.1	787.8	774.3
50°	795.1	781.6	744.2	708.0	689.6
52.5°	719.7	704.9	666.9	631.9	620.3
55°	647.9	631.3	595.7	562.6	552.2
57.5°	579.2	562.6	527.6	498.8	489.0
60°	514.7	496.3	463.8	440.5	432.5
62.5°	452.8	435.0	407.4	389.0	385.3
65°	395.1	379.2	354.6	343.6	344.2
67.5°	343.0	328.8	308.6	304.9	303.1
70°	294.5	282.8	265.7	267.5	268.1
72.5°	250.9	241.7	231.9	234.4	238.0
75°	211.1	204.3	196.3	203.7	209.2
77.5°	174.9	168.1	165.0	173.6	178.5
80°	140.5	135.0	134.4	144.2	150.3
82.5°	106.8	103.1	102.5	113.5	117.8
85°	74.2	71.2	71.2	82.8	82.2
87.5°	39.9	38.7	36.2	43.6	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)