

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: P798210

Luminaire Tested: 22GRSCT3-F1-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F1-UNV-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

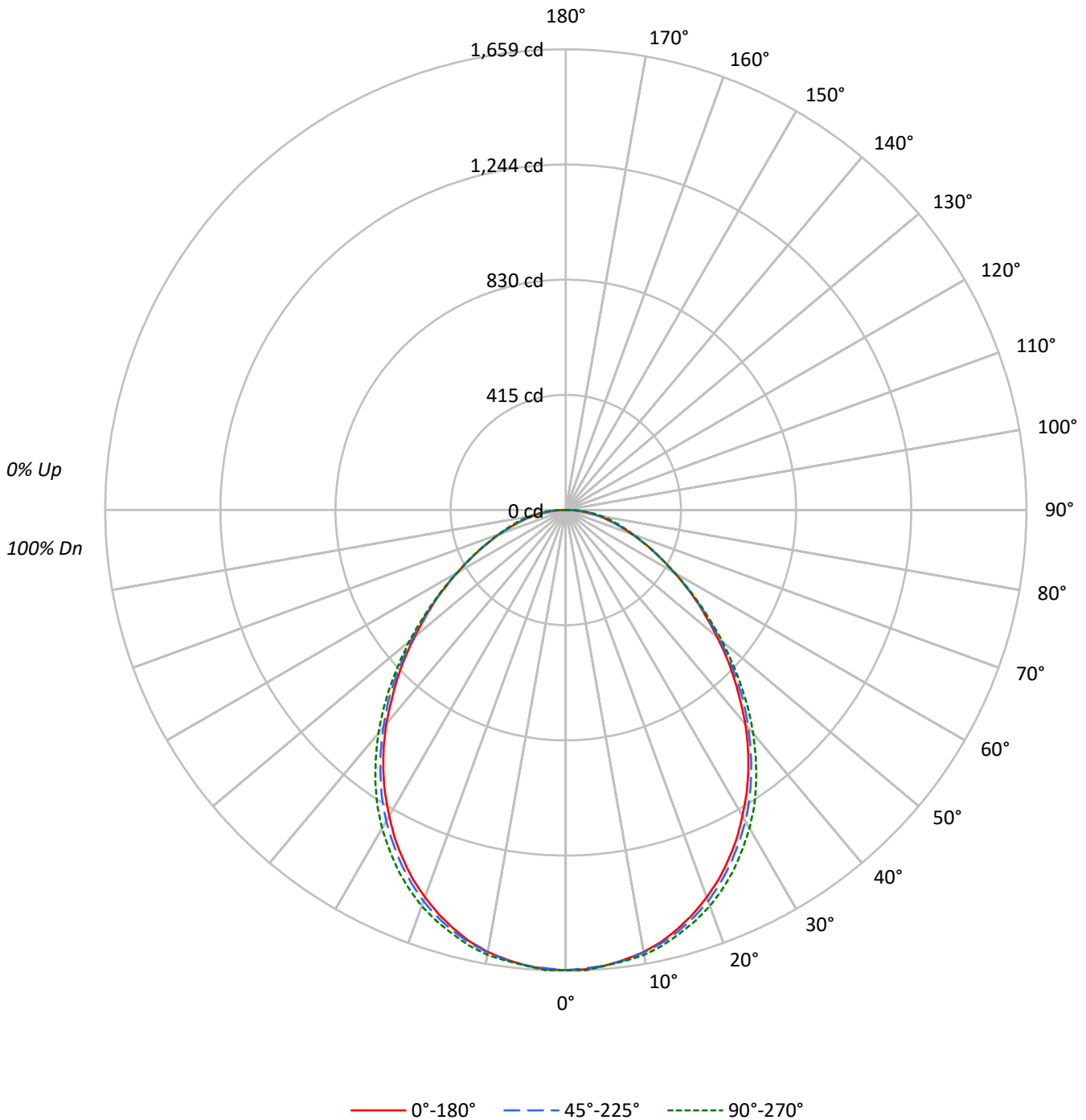
Lumens per Lamp: N/A
Luminaire Lumens: 3781.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	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	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	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	51	76	65	57	51	63	56	51	61	55	50	59	54	50	50	50	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	44	44	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	40	40	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	36	36	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	32	32	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4458	4458	4458
5°	4447	4446	4449
10°	4416	4421	4445
15°	4347	4372	4401
20°	4249	4293	4344
25°	4120	4170	4246
30°	3951	4019	4111
35°	3763	3824	3927
40°	3535	3592	3688
45°	3262	3324	3395
50°	2974	3025	3078
55°	2709	2720	2747
60°	2433	2433	2433
65°	2195	2184	2195
70°	2005	1986	2031
75°	1858	1864	1997
80°	1816	1880	2086
85°	1899	2025	2313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3395 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	4.1
10°-20°	442.4	11.7
20°-30°	646.9	17.1
30°-40°	728.9	19.3
40°-50°	674.4	17.8
50°-60°	520.8	13.8
60°-70°	343.8	9.1
70°-80°	196.3	5.2
80°-90°	71.3	1.9
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°	1245.6	32.9
0°-40°	1974.5	52.2
0°-60°	3169.7	83.8
0°-90°	3781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1646	1649	1646	1646	1647	156
15°	1560	1566	1569	1575	1580	439
25°	1388	1395	1404	1420	1430	638
35°	1146	1153	1164	1185	1196	715
45°	857	865	873	886	892	661
55°	577	577	580	584	586	516
65°	345	344	343	345	345	344
75°	179	180	179	189	192	192
85°	62	63	66	72	75	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1656.8	1656.8	1656.8	1656.8	1656.8
2.5°	1655.1	1656.8	1651.6	1654.5	1658.6
5°	1646.4	1648.7	1645.8	1645.8	1647.0
7.5°	1632.4	1635.9	1634.2	1635.9	1637.1
10°	1616.2	1619.1	1617.9	1622.6	1626.6
12.5°	1592.4	1595.9	1597.0	1602.8	1606.9
15°	1560.5	1566.3	1569.2	1575.0	1579.6
17.5°	1525.1	1531.5	1536.7	1544.2	1551.2
20°	1483.9	1491.4	1499.0	1508.8	1517.0
22.5°	1439.2	1446.2	1453.7	1467.1	1476.3
25°	1387.5	1395.1	1404.4	1420.0	1429.9
27.5°	1333.0	1340.0	1349.8	1367.8	1377.1
30°	1271.5	1281.4	1293.5	1311.5	1323.1
32.5°	1211.7	1219.8	1231.4	1250.0	1262.8
35°	1145.6	1153.1	1164.1	1185.0	1195.5
37.5°	1077.7	1083.5	1094.5	1115.4	1123.5
40°	1006.3	1012.1	1022.5	1041.7	1049.8
42.5°	929.7	939.5	950.6	965.1	973.2
45°	857.1	865.3	873.4	886.2	892.0
47.5°	785.2	790.4	797.9	808.4	811.9
50°	710.3	716.1	722.5	730.0	735.3
52.5°	641.8	645.3	650.0	654.6	658.1
55°	577.4	576.8	579.7	583.8	585.5
57.5°	511.8	512.4	514.2	516.5	517.6
60°	452.1	451.5	452.1	453.2	452.1
62.5°	395.8	395.2	394.6	395.8	396.4
65°	344.7	343.6	343.0	344.7	344.7
67.5°	297.7	296.5	295.4	298.9	298.3
70°	254.8	254.2	252.4	257.1	258.2
72.5°	214.7	215.3	213.6	222.8	224.0
75°	178.7	180.5	179.3	188.6	192.1
77.5°	147.4	149.7	150.3	158.4	162.5
80°	117.2	119.0	121.3	129.4	134.6
82.5°	89.4	90.5	95.2	100.4	104.5
85°	61.5	63.3	65.6	72.5	74.9
87.5°	31.9	33.7	35.4	41.8	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)