

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: P798274

Luminaire Tested: 24GRSCT3-F125-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293206)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F125-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

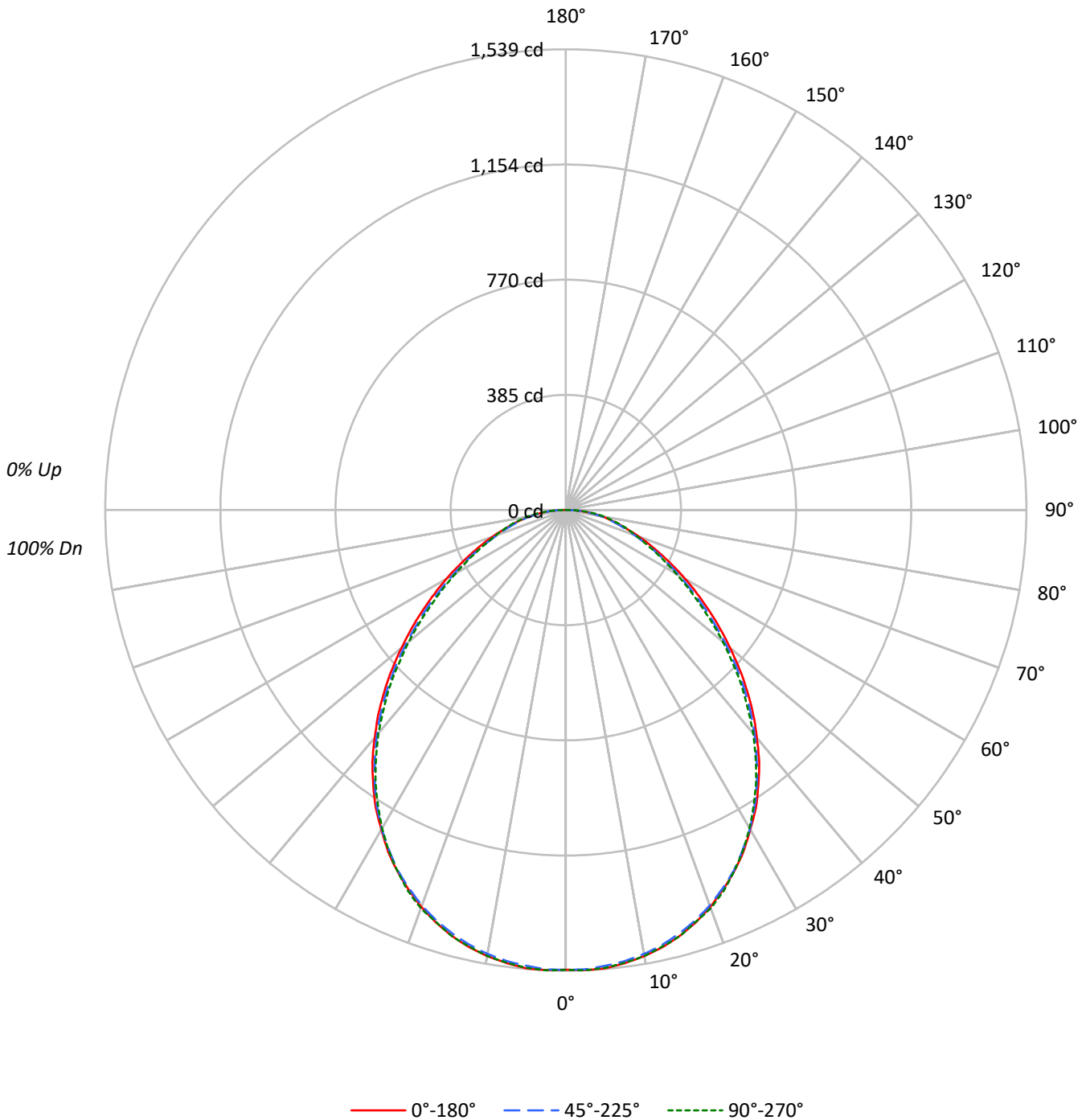
Lumens per Lamp: N/A
Luminaire Lumens: 3613.4 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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				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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	39	39	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	35	35	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	32	32	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	29	29	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2066	2066	2066
5°	2076	2064	2073
10°	2067	2057	2066
15°	2051	2040	2053
20°	2021	2013	2027
25°	1977	1972	1976
30°	1915	1911	1907
35°	1842	1828	1821
40°	1744	1724	1710
45°	1631	1601	1582
50°	1499	1459	1434
55°	1367	1317	1278
60°	1242	1175	1144
65°	1118	1055	1038
70°	1024	958	984
75°	957	913	980
80°	950	932	1024
85°	968	977	1116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1631 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	4.0
10°-20°	413.2	11.4
20°-30°	610.4	16.9
30°-40°	694.0	19.2
40°-50°	648.1	17.9
50°-60°	504.0	13.9
60°-70°	334.4	9.3
70°-80°	193.5	5.4
80°-90°	70.4	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°	1169.0	32.4
0°-40°	1863.0	51.6
0°-60°	3015.1	83.4
0°-90°	3613.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3613.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1537	1529	1528	1531	1535	146
15°	1472	1465	1464	1464	1474	415
25°	1332	1326	1328	1326	1331	612
35°	1122	1116	1113	1105	1109	700
45°	857	851	842	831	831	661
55°	583	574	561	547	545	523
65°	351	340	332	325	326	351
75°	184	180	176	184	189	197
85°	63	62	63	72	72	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.7	1535.7	1535.7	1535.7	1535.7
2.5°	1538.0	1533.5	1535.7	1534.0	1539.0
5°	1536.8	1528.9	1528.3	1531.1	1534.6
7.5°	1526.1	1517.6	1519.2	1519.2	1524.9
10°	1513.0	1504.6	1505.8	1506.3	1512.5
12.5°	1495.6	1487.1	1487.7	1487.1	1493.3
15°	1472.5	1465.1	1464.5	1464.0	1473.5
17.5°	1444.2	1434.0	1437.5	1438.0	1443.0
20°	1411.4	1403.5	1405.8	1405.2	1415.9
22.5°	1372.5	1366.8	1368.5	1367.3	1377.5
25°	1331.8	1326.1	1328.4	1325.6	1331.3
27.5°	1286.1	1282.1	1279.9	1278.2	1282.1
30°	1232.5	1230.1	1230.1	1222.8	1227.3
32.5°	1181.6	1174.2	1174.2	1171.3	1168.5
35°	1121.7	1116.1	1113.2	1105.3	1108.7
37.5°	1061.8	1048.9	1047.7	1041.5	1041.5
40°	992.9	985.6	981.6	974.9	973.7
42.5°	927.4	920.1	913.2	902.0	899.7
45°	857.4	850.6	841.5	830.8	831.3
47.5°	787.9	778.4	769.8	756.8	755.1
50°	716.2	709.4	697.0	685.7	685.1
52.5°	648.9	638.2	626.9	613.4	613.4
55°	582.9	574.4	561.4	546.7	545.0
57.5°	519.6	511.7	497.0	486.3	483.4
60°	461.5	450.1	436.5	427.6	425.3
62.5°	403.3	393.1	382.9	373.9	373.4
65°	351.3	340.5	331.5	325.3	325.9
67.5°	304.4	295.5	285.2	283.6	284.1
70°	260.3	250.8	243.4	247.4	250.2
72.5°	218.6	213.5	208.4	214.1	218.1
75°	184.1	179.6	175.7	183.6	188.6
77.5°	152.4	149.1	148.6	155.3	159.8
80°	122.6	118.6	120.3	128.2	132.2
82.5°	93.1	90.4	90.9	100.5	103.4
85°	62.7	61.6	63.3	71.7	72.3
87.5°	33.3	33.3	34.5	39.5	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)