

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: P798273

Luminaire Tested: 24GRSCT3-F125-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798273
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-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

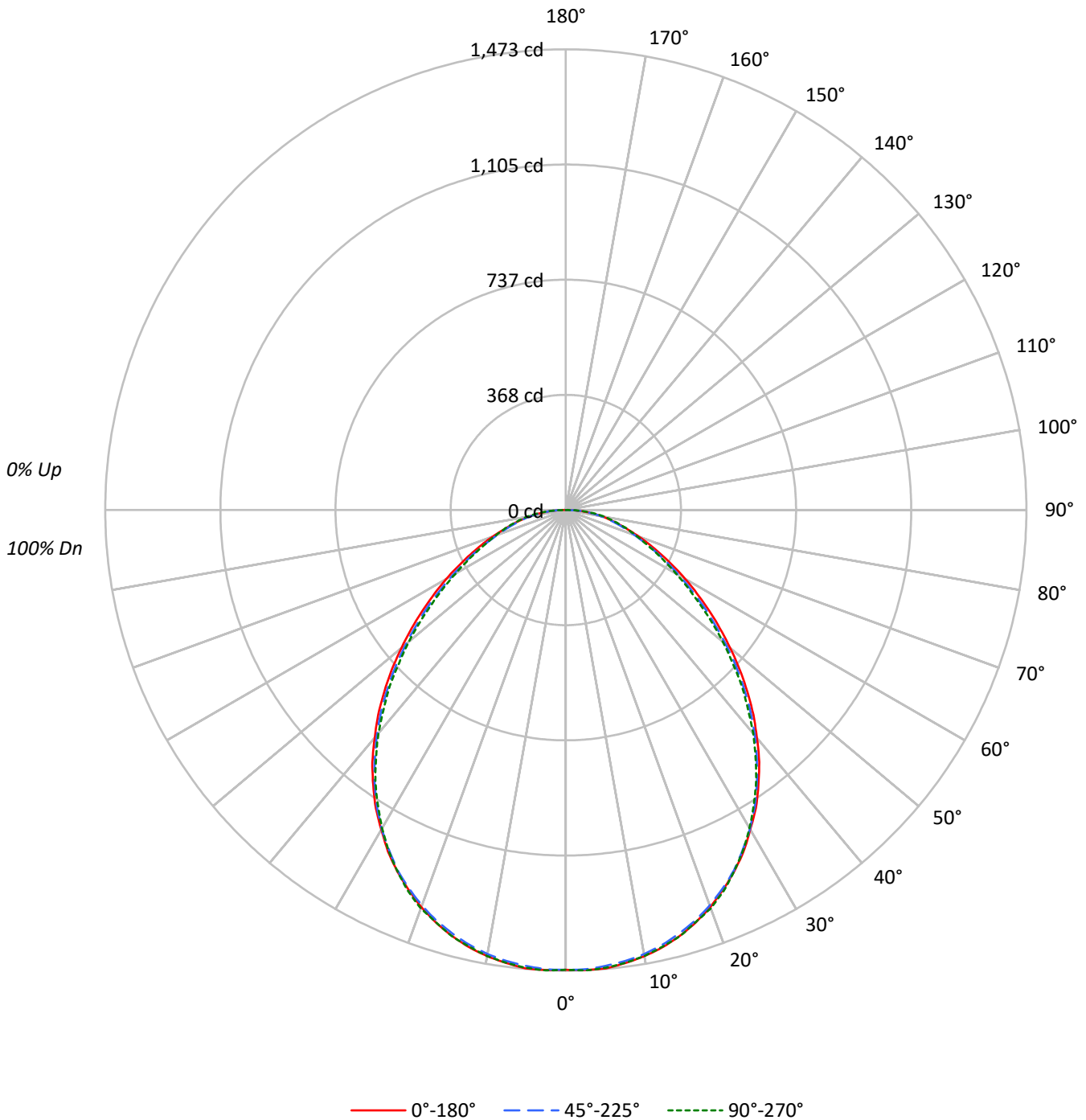
Lumens per Lamp: N/A
Luminaire Lumens: 3459.2 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.3
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	73	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°	1978	1978	1978
5°	1987	1976	1984
10°	1979	1970	1978
15°	1964	1953	1965
20°	1935	1927	1941
25°	1893	1888	1892
30°	1833	1830	1825
35°	1764	1750	1743
40°	1670	1651	1637
45°	1562	1533	1514
50°	1435	1397	1373
55°	1309	1261	1224
60°	1189	1125	1095
65°	1071	1011	993
70°	980	917	943
75°	916	874	939
80°	910	892	980
85°	926	936	1070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1562 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	4.0
10°-20°	395.6	11.4
20°-30°	584.4	16.9
30°-40°	664.4	19.2
40°-50°	620.4	17.9
50°-60°	482.5	13.9
60°-70°	320.2	9.3
70°-80°	185.3	5.4
80°-90°	67.4	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°	1119.1	32.4
0°-40°	1783.5	51.6
0°-60°	2886.4	83.4
0°-90°	3459.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3459.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1471	1464	1463	1466	1469	140
15°	1410	1403	1402	1402	1411	397
25°	1275	1270	1272	1269	1274	586
35°	1074	1068	1066	1058	1061	670
45°	821	814	806	795	796	632
55°	558	550	538	523	522	500
65°	336	326	317	311	312	336
75°	176	172	168	176	181	189
85°	60	59	61	69	69	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.1	1470.1	1470.1	1470.1	1470.1
2.5°	1472.4	1468.0	1470.1	1468.5	1473.3
5°	1471.2	1463.7	1463.1	1465.8	1469.1
7.5°	1461.0	1452.8	1454.4	1454.4	1459.9
10°	1448.5	1440.4	1441.6	1442.1	1448.0
12.5°	1431.8	1423.6	1424.2	1423.6	1429.6
15°	1409.7	1402.6	1402.0	1401.5	1410.6
17.5°	1382.6	1372.8	1376.1	1376.6	1381.5
20°	1351.2	1343.6	1345.8	1345.2	1355.5
22.5°	1313.9	1308.5	1310.1	1309.0	1318.8
25°	1275.0	1269.5	1271.8	1269.0	1274.5
27.5°	1231.2	1227.4	1225.3	1223.6	1227.4
30°	1179.9	1177.6	1177.6	1170.6	1174.9
32.5°	1131.1	1124.1	1124.1	1121.4	1118.6
35°	1073.9	1068.4	1065.7	1058.2	1061.4
37.5°	1016.5	1004.1	1003.0	997.1	997.1
40°	950.6	943.5	939.7	933.3	932.1
42.5°	887.9	880.8	874.3	863.5	861.3
45°	820.8	814.3	805.6	795.4	795.9
47.5°	754.3	745.1	737.0	724.5	722.9
50°	685.7	679.1	667.2	656.5	655.9
52.5°	621.2	611.0	600.2	587.2	587.2
55°	558.0	549.9	537.5	523.4	521.8
57.5°	497.4	489.9	475.8	465.5	462.8
60°	441.8	430.9	417.9	409.4	407.1
62.5°	386.1	376.3	366.6	357.9	357.4
65°	336.3	326.0	317.4	311.4	312.0
67.5°	291.4	282.8	273.1	271.5	272.0
70°	249.2	240.1	233.0	236.8	239.6
72.5°	209.3	204.4	199.5	204.9	208.8
75°	176.2	171.9	168.2	175.7	180.6
77.5°	145.9	142.7	142.2	148.7	153.0
80°	117.4	113.5	115.1	122.7	126.5
82.5°	89.2	86.6	87.1	96.2	98.9
85°	60.0	59.0	60.6	68.6	69.3
87.5°	31.9	31.9	33.0	37.8	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)