

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: P798264

Luminaire Tested: 24GRSCT3-F1-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292954)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F1-UNV-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

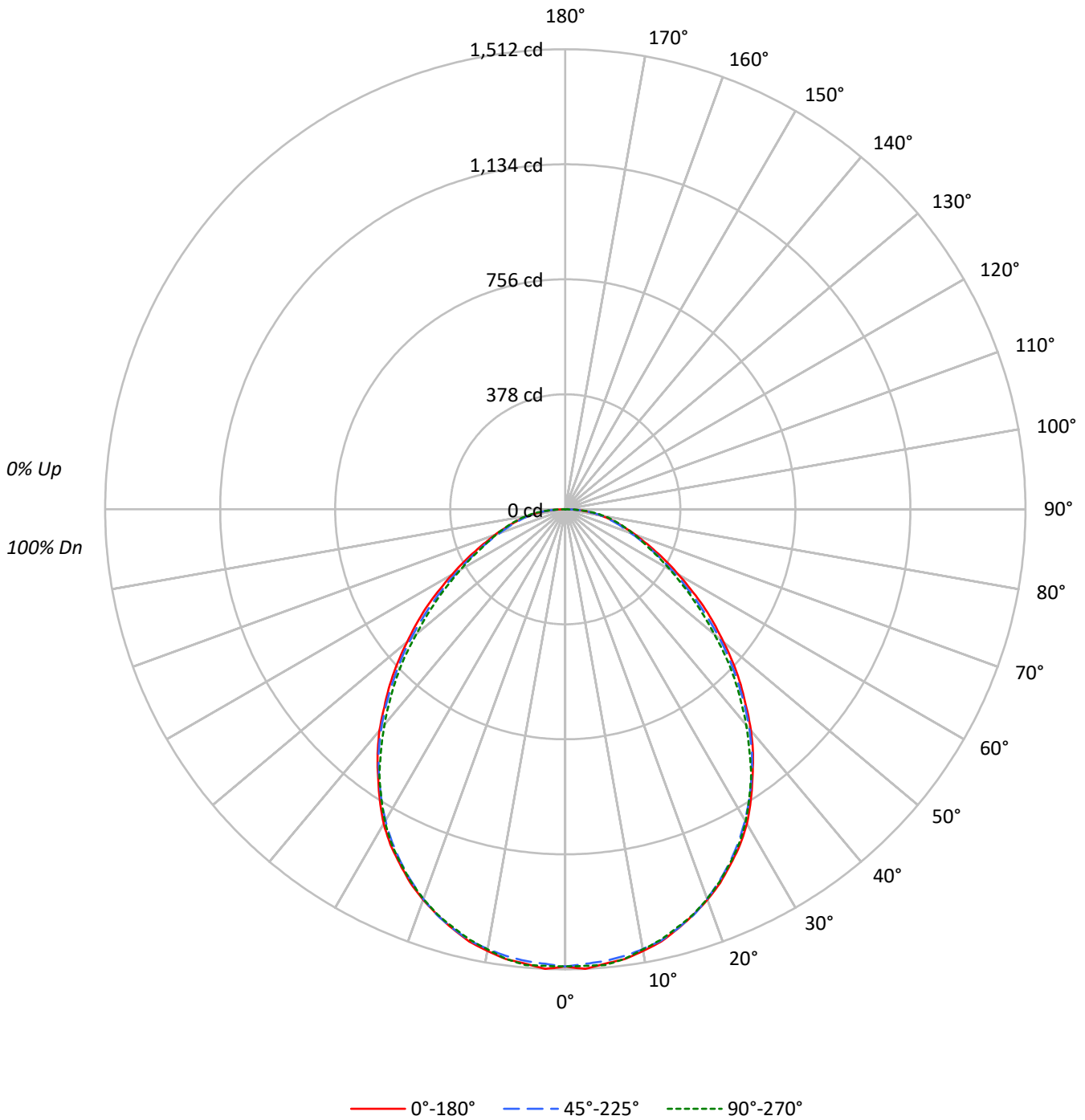
Lumens per Lamp: N/A
Luminaire Lumens: 3459.2 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	56	54
5	78	66	58	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	45	56	49	44	54	48	44	44	44	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	39	39	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	36	36	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	32	32	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2022	2022	2022
5°	2025	2013	2030
10°	2014	2005	2007
15°	1989	1987	1982
20°	1955	1951	1951
25°	1910	1899	1903
30°	1855	1836	1841
35°	1761	1753	1748
40°	1668	1653	1624
45°	1550	1523	1493
50°	1420	1389	1337
55°	1297	1239	1197
60°	1156	1100	1071
65°	1040	986	972
70°	966	906	943
75°	923	883	957
80°	923	923	1023
85°	959	969	1079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1550 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	4.1
10°-20°	401.6	11.6
20°-30°	589.4	17.0
30°-40°	666.3	19.3
40°-50°	615.8	17.8
50°-60°	474.5	13.7
60°-70°	314.2	9.1
70°-80°	187.0	5.4
80°-90°	68.5	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°	1132.9	32.7
0°-40°	1799.2	52.0
0°-60°	2889.5	83.5
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°	1503	1503	1503	1503	1503	
5°	1499	1499	1490	1491	1503	142
15°	1428	1425	1426	1426	1423	402
25°	1286	1283	1279	1278	1282	592
35°	1072	1071	1067	1062	1064	671
45°	815	809	801	786	785	628
55°	553	542	528	514	510	493
65°	327	322	310	307	305	328
75°	178	173	170	178	184	189
85°	62	58	63	69	70	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.7	1502.7	1502.7	1502.7	1502.7
2.5°	1511.9	1504.0	1495.5	1495.5	1501.9
5°	1499.1	1499.1	1490.4	1491.2	1503.3
7.5°	1491.2	1486.9	1481.1	1481.1	1490.4
10°	1474.1	1470.5	1467.7	1466.2	1469.0
12.5°	1455.5	1449.8	1451.9	1449.8	1449.1
15°	1427.7	1424.9	1426.2	1425.5	1422.6
17.5°	1397.7	1396.3	1399.1	1394.2	1396.3
20°	1365.6	1361.3	1362.8	1359.9	1362.8
22.5°	1329.3	1326.4	1322.8	1319.2	1324.9
25°	1286.3	1282.9	1279.3	1277.8	1282.1
27.5°	1243.6	1237.9	1232.9	1231.4	1237.9
30°	1193.7	1187.3	1181.5	1180.1	1185.1
32.5°	1134.5	1133.0	1125.8	1123.0	1125.2
35°	1072.4	1070.9	1067.3	1062.4	1064.5
37.5°	1013.1	1012.4	1007.5	998.9	993.1
40°	949.7	944.6	941.0	928.9	924.7
42.5°	879.7	878.3	871.9	858.3	853.4
45°	814.8	809.1	800.6	786.2	784.8
47.5°	747.7	739.8	732.0	714.2	713.5
50°	678.5	672.8	663.5	645.7	638.5
52.5°	614.3	606.5	593.6	576.5	573.0
55°	553.0	541.6	528.0	513.7	510.2
57.5°	487.3	482.3	465.9	454.5	450.2
60°	429.5	425.2	408.9	398.1	398.1
62.5°	377.5	371.0	356.7	349.6	349.6
65°	326.8	321.8	309.7	306.8	305.4
67.5°	283.2	276.8	268.3	267.5	271.1
70°	245.5	237.6	230.4	237.6	239.7
72.5°	209.8	204.8	198.4	207.7	211.9
75°	177.6	173.4	169.8	177.6	184.0
77.5°	148.4	144.1	144.1	152.7	158.4
80°	119.1	116.3	119.1	126.3	132.0
82.5°	91.3	89.2	92.8	99.9	103.5
85°	62.1	58.5	62.8	69.3	69.9
87.5°	29.3	28.6	31.4	35.6	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)