

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: P798283

Luminaire Tested: 24GRSCT3-FGW080-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294214)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-FGW080-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

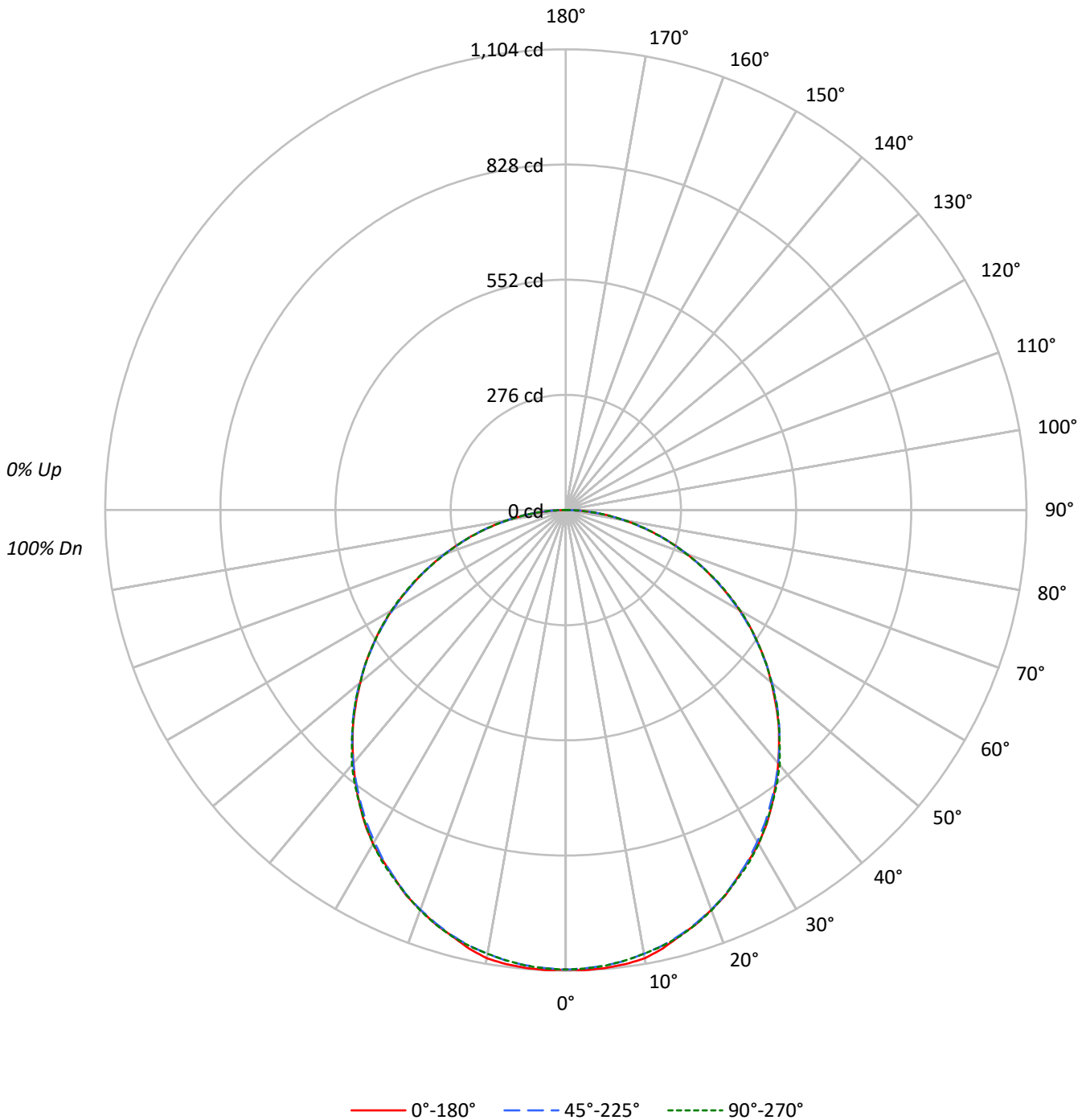
Lumens per Lamp: N/A
Luminaire Lumens: 3150.9 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100	100	100	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1482	1482	1482
5°	1487	1479	1480
10°	1490	1475	1475
15°	1471	1470	1473
20°	1460	1459	1462
25°	1444	1443	1447
30°	1435	1426	1436
35°	1415	1407	1415
40°	1391	1392	1400
45°	1372	1376	1373
50°	1346	1350	1347
55°	1325	1321	1325
60°	1294	1290	1302
65°	1254	1259	1264
70°	1213	1219	1210
75°	1171	1171	1171
80°	1105	1105	1117
85°	1020	1033	997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.3
10°-20°	297.7	9.4
20°-30°	448.6	14.2
30°-40°	537.3	17.1
40°-50°	556.2	17.7
50°-60°	504.3	16.0
60°-70°	391.0	12.4
70°-80°	237.8	7.5
80°-90°	74.0	2.3
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°	850.4	27.0
0°-40°	1387.7	44.0
0°-60°	2448.2	77.7
0°-90°	3150.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1101	1095	1095	1094	1096	105
15°	1056	1057	1055	1051	1057	299
25°	973	973	972	975	975	449
35°	861	855	857	860	861	539
45°	721	722	723	720	722	555
55°	565	562	563	565	565	505
65°	394	396	395	394	397	391
75°	225	224	225	224	225	238
85°	66	65	67	66	65	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1101.3	1101.3	1101.3	1101.3	1101.3
2.5°	1103.5	1099.0	1099.0	1097.6	1099.8
5°	1101.3	1094.6	1095.4	1093.8	1096.0
7.5°	1097.6	1088.7	1089.4	1087.9	1088.7
10°	1090.8	1080.5	1079.7	1079.0	1079.7
12.5°	1076.0	1070.0	1069.3	1067.9	1070.0
15°	1056.0	1056.6	1055.2	1051.4	1057.4
17.5°	1040.3	1039.6	1038.1	1034.4	1040.3
20°	1019.5	1020.3	1018.8	1017.3	1021.0
22.5°	999.5	997.2	998.0	997.2	998.0
25°	972.6	972.6	972.0	975.0	975.0
27.5°	948.2	945.3	946.7	949.6	951.2
30°	923.7	916.2	917.7	920.7	924.5
32.5°	894.7	887.2	888.7	891.6	893.2
35°	861.3	855.3	856.8	860.5	861.3
37.5°	827.0	823.3	824.9	827.8	830.0
40°	792.2	790.6	792.8	792.2	797.3
42.5°	756.5	755.7	757.9	757.9	758.7
45°	720.9	722.3	723.1	720.1	721.5
47.5°	681.5	682.1	685.1	683.7	684.4
50°	642.8	642.1	645.0	645.8	643.5
52.5°	605.6	601.9	604.8	606.4	604.8
55°	564.8	561.8	563.3	565.4	564.8
57.5°	524.6	521.7	522.4	526.0	524.6
60°	480.8	480.1	479.3	482.3	483.8
62.5°	437.7	436.9	435.5	438.5	439.9
65°	393.9	396.1	395.3	393.9	396.9
67.5°	352.2	354.5	352.2	350.7	350.7
70°	308.4	310.6	309.9	308.4	307.6
72.5°	267.5	267.5	266.0	265.2	266.0
75°	225.2	224.4	225.2	224.4	225.2
77.5°	183.6	184.3	184.3	184.3	183.6
80°	142.6	142.6	142.6	143.4	144.2
82.5°	104.8	102.6	104.8	103.3	104.0
85°	66.1	65.4	66.9	66.1	64.6
87.5°	29.7	30.5	30.5	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)