

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: P798232

Luminaire Tested: 22GRSCT3-FGW080-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292748)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-FGW080-UNV-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

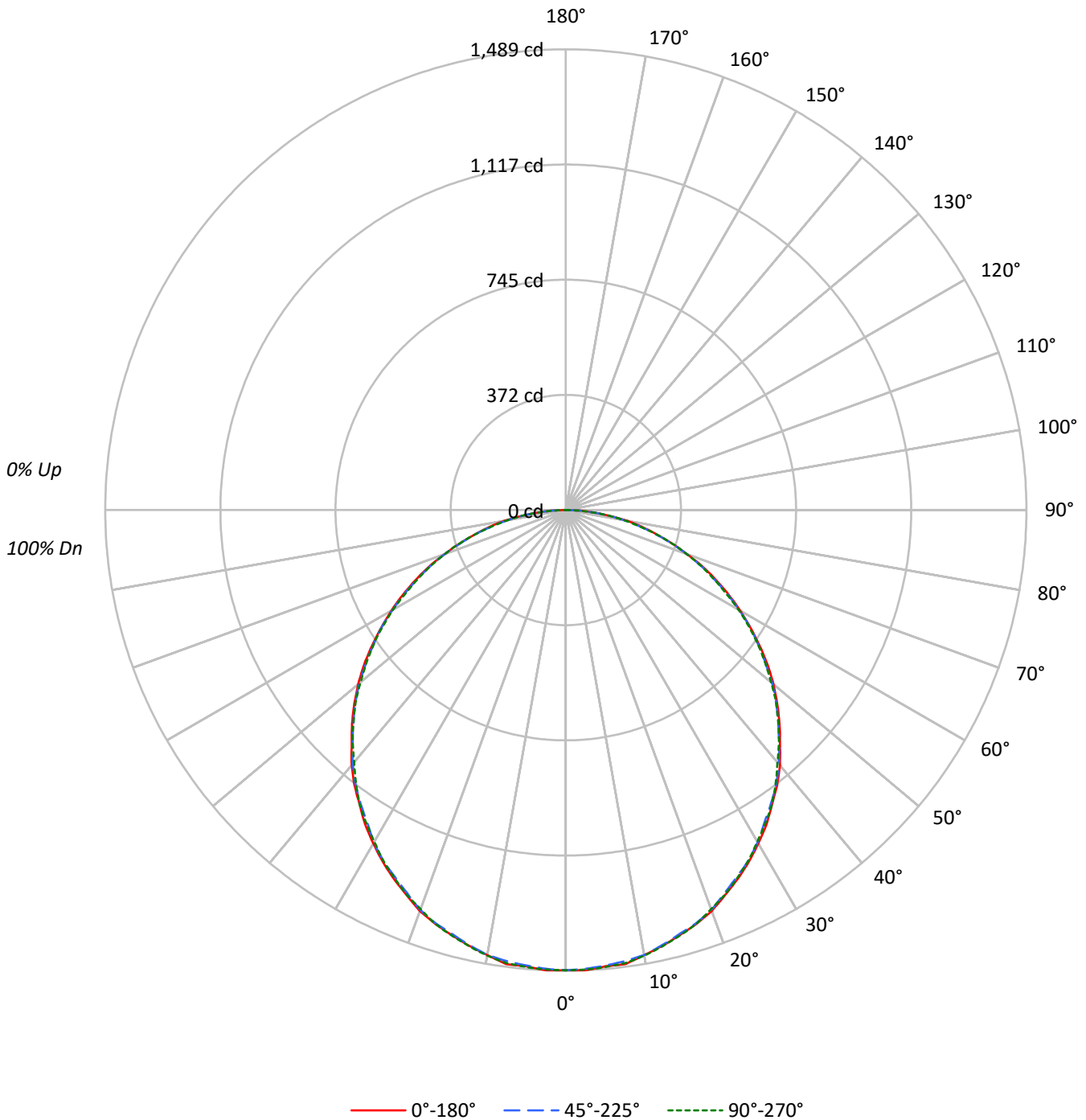
Lumens per Lamp: N/A
Luminaire Lumens: 4250.5 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4004	4004	4004
5°	3999	3992	4005
10°	3990	3990	3997
15°	3964	3953	3967
20°	3950	3939	3931
25°	3906	3884	3895
30°	3867	3855	3847
35°	3817	3801	3817
40°	3784	3766	3740
45°	3720	3695	3695
50°	3669	3647	3626
55°	3589	3567	3560
60°	3507	3487	3472
65°	3417	3377	3362
70°	3279	3271	3279
75°	3165	3126	3154
80°	3135	2977	2960
85°	2776	2695	2736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3720 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.3
10°-20°	401.6	9.4
20°-30°	604.7	14.2
30°-40°	725.6	17.1
40°-50°	750.9	17.7
50°-60°	680.4	16.0
60°-70°	527.4	12.4
70°-80°	320.1	7.5
80°-90°	99.1	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°	1147.0	27.0
0°-40°	1872.6	44.1
0°-60°	3303.9	77.7
0°-90°	4250.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4250.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1480	1480	1478	1481	1483	141
15°	1423	1423	1419	1425	1424	402
25°	1315	1313	1308	1313	1312	606
35°	1162	1162	1157	1158	1162	728
45°	977	976	971	971	971	754
55°	765	764	760	759	759	684
65°	537	537	530	533	528	531
75°	304	303	301	301	303	324
85°	90	89	87	87	89	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.8	1487.8	1487.8	1487.8	1487.8
2.5°	1488.9	1482.7	1484.1	1486.5	1486.5
5°	1480.3	1480.3	1477.7	1481.4	1482.7
7.5°	1480.3	1473.9	1470.2	1473.9	1476.6
10°	1460.3	1457.7	1460.3	1459.0	1462.7
12.5°	1442.7	1440.3	1440.3	1444.1	1444.1
15°	1422.7	1422.7	1419.0	1425.4	1424.0
17.5°	1403.0	1403.0	1400.3	1400.3	1403.0
20°	1379.2	1372.8	1375.5	1374.2	1372.8
22.5°	1346.7	1342.9	1340.5	1344.3	1345.3
25°	1315.4	1313.0	1308.0	1313.0	1311.7
27.5°	1281.8	1279.2	1278.1	1275.4	1278.1
30°	1244.5	1241.8	1240.5	1238.1	1238.1
32.5°	1206.9	1201.8	1195.6	1201.8	1200.7
35°	1162.0	1162.0	1157.0	1158.3	1162.0
37.5°	1122.0	1119.6	1116.9	1113.2	1114.5
40°	1077.2	1073.4	1072.1	1069.7	1064.6
42.5°	1024.6	1024.6	1019.8	1020.9	1019.8
45°	977.4	976.0	971.0	971.0	971.0
47.5°	927.2	926.2	922.4	919.7	922.4
50°	876.3	871.2	871.2	867.4	866.1
52.5°	822.6	818.6	813.8	814.9	812.5
55°	765.0	763.9	760.2	758.9	758.9
57.5°	707.6	709.0	706.3	701.5	702.6
60°	651.6	650.3	647.9	645.2	645.2
62.5°	594.2	594.2	589.2	589.2	584.1
65°	536.6	536.6	530.4	532.9	528.0
67.5°	479.2	478.2	474.1	473.1	474.1
70°	416.8	418.1	415.7	415.7	416.8
72.5°	360.7	359.4	358.1	358.1	360.7
75°	304.4	303.4	300.7	300.7	303.4
77.5°	253.5	247.1	245.7	248.4	244.7
80°	202.3	193.4	192.1	191.0	191.0
82.5°	142.2	138.5	139.8	138.5	141.2
85°	89.9	88.6	87.3	87.3	88.6
87.5°	42.4	40.0	40.0	38.7	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)