

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: P798233

Luminaire Tested: 22GRSCT3-FGW080-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798233
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

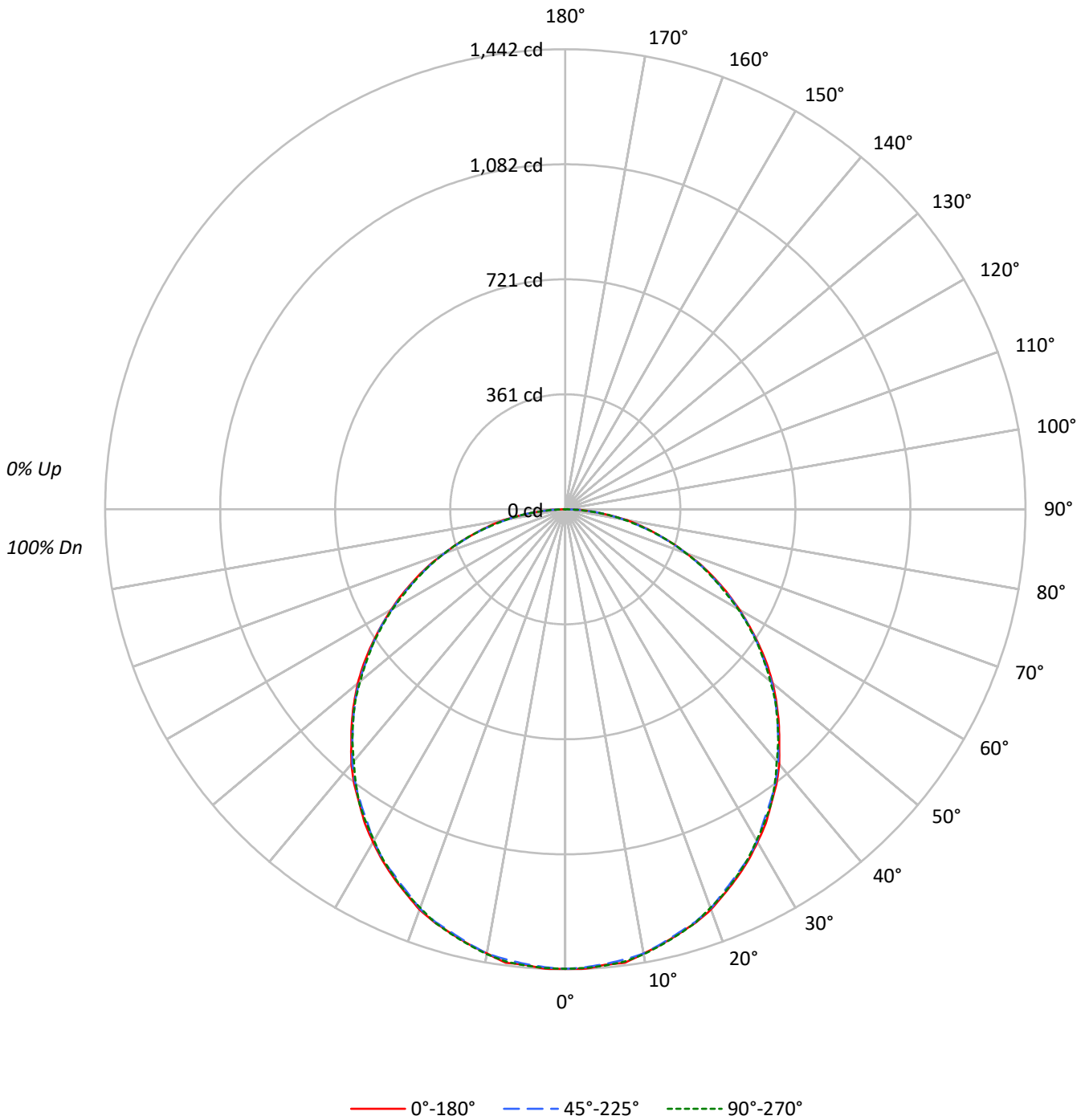
Lumens per Lamp: N/A
Luminaire Lumens: 4115.3 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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°	3876	3876	3876
5°	3871	3865	3878
10°	3863	3863	3870
15°	3837	3827	3841
20°	3824	3814	3806
25°	3782	3760	3771
30°	3744	3732	3725
35°	3696	3680	3696
40°	3664	3646	3621
45°	3601	3578	3578
50°	3552	3531	3511
55°	3475	3453	3447
60°	3395	3376	3362
65°	3308	3270	3255
70°	3175	3167	3175
75°	3065	3027	3054
80°	3034	2882	2867
85°	2689	2609	2649

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3601 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.3
10°-20°	388.8	9.4
20°-30°	585.4	14.2
30°-40°	702.5	17.1
40°-50°	727.0	17.7
50°-60°	658.7	16.0
60°-70°	510.6	12.4
70°-80°	310.0	7.5
80°-90°	96.0	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°	1110.5	27.0
0°-40°	1813.0	44.1
0°-60°	3198.7	77.7
0°-90°	4115.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4115.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1433	1433	1431	1434	1436	137
15°	1377	1377	1374	1380	1379	389
25°	1274	1271	1266	1271	1270	587
35°	1125	1125	1120	1121	1125	705
45°	946	945	940	940	940	730
55°	741	740	736	735	735	662
65°	520	520	514	516	511	514
75°	295	294	291	291	294	314
85°	87	86	84	84	86	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.5	1440.5	1440.5	1440.5	1440.5
2.5°	1441.5	1435.6	1436.9	1439.2	1439.2
5°	1433.2	1433.2	1430.7	1434.3	1435.6
7.5°	1433.2	1427.0	1423.4	1427.0	1429.6
10°	1413.9	1411.3	1413.9	1412.6	1416.2
12.5°	1396.8	1394.5	1394.5	1398.1	1398.1
15°	1377.4	1377.4	1373.8	1380.0	1378.7
17.5°	1358.3	1358.3	1355.7	1355.7	1358.3
20°	1335.3	1329.1	1331.7	1330.4	1329.1
22.5°	1303.8	1300.2	1297.9	1301.5	1302.5
25°	1273.6	1271.3	1266.4	1271.3	1270.0
27.5°	1241.0	1238.5	1237.4	1234.8	1237.4
30°	1204.9	1202.3	1201.0	1198.7	1198.7
32.5°	1168.4	1163.5	1157.6	1163.5	1162.5
35°	1125.0	1125.0	1120.1	1121.4	1125.0
37.5°	1086.3	1084.0	1081.4	1077.8	1079.1
40°	1042.9	1039.3	1038.0	1035.7	1030.8
42.5°	992.0	992.0	987.4	988.4	987.4
45°	946.3	945.0	940.1	940.1	940.1
47.5°	897.7	896.7	893.1	890.5	893.1
50°	848.4	843.5	843.5	839.8	838.6
52.5°	796.4	792.6	787.9	789.0	786.6
55°	740.6	739.6	736.0	734.7	734.7
57.5°	685.1	686.4	683.8	679.2	680.2
60°	630.9	629.6	627.2	624.7	624.7
62.5°	575.3	575.3	570.4	570.4	565.5
65°	519.5	519.5	513.6	515.9	511.2
67.5°	464.0	462.9	459.1	458.0	459.1
70°	403.5	404.8	402.5	402.5	403.5
72.5°	349.3	348.0	346.7	346.7	349.3
75°	294.8	293.7	291.1	291.1	293.7
77.5°	245.4	239.2	237.9	240.5	236.9
80°	195.8	187.3	186.0	185.0	185.0
82.5°	137.7	134.1	135.4	134.1	136.7
85°	87.1	85.8	84.5	84.5	85.8
87.5°	41.1	38.8	38.8	37.5	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)