

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: P798177

Luminaire Tested: 14GRSCT3-FGW080-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291572)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-FGW080-UNV-MID-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

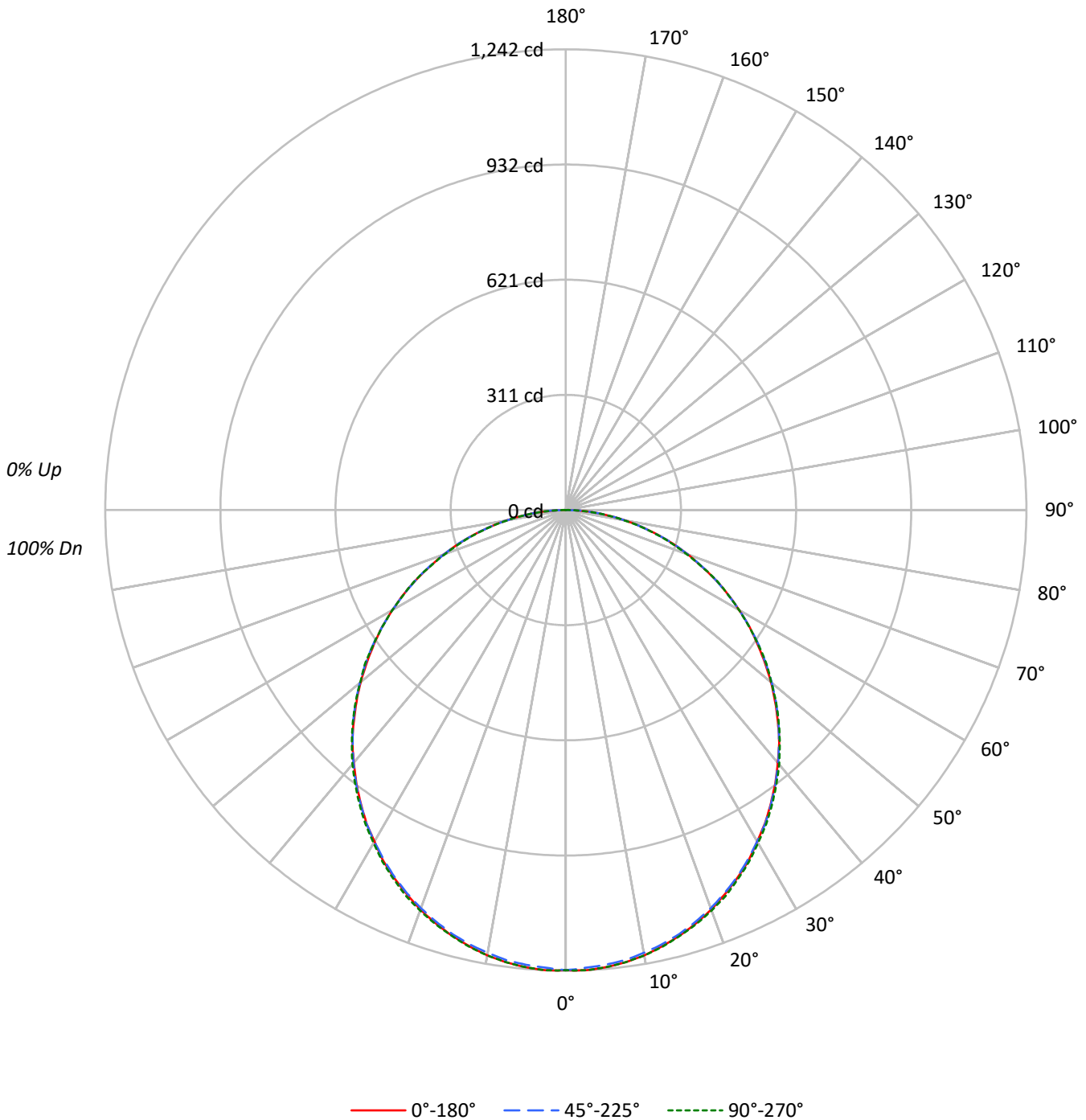
Lumens per Lamp: N/A
Luminaire Lumens: 3548.1 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (A_{in}): 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	93	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	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	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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°	3339	3339	3339
5°	3343	3324	3343
10°	3332	3313	3332
15°	3309	3296	3311
20°	3283	3271	3291
25°	3250	3243	3260
30°	3207	3207	3221
35°	3167	3171	3186
40°	3124	3128	3144
45°	3078	3086	3091
50°	3024	3034	3029
55°	2964	2981	2975
60°	2905	2905	2905
65°	2839	2839	2853
70°	2749	2749	2722
75°	2653	2641	2630
80°	2532	2514	2495
85°	2377	2350	2272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 3091 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.3
10°-20°	334.9	9.4
20°-30°	504.7	14.2
30°-40°	604.8	17.0
40°-50°	625.4	17.6
50°-60°	567.0	16.0
60°-70°	440.6	12.4
70°-80°	269.2	7.6
80°-90°	84.2	2.4
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°	956.9	27.0
0°-40°	1561.7	44.0
0°-60°	2754.1	77.6
0°-90°	3548.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1237	1236	1231	1236	1237	118
15°	1188	1188	1183	1189	1189	335
25°	1095	1095	1092	1099	1098	504
35°	964	965	965	970	970	603
45°	809	810	811	812	812	624
55°	632	634	635	635	634	565
65°	446	446	446	443	448	440
75°	255	255	254	253	253	270
85°	77	75	76	74	74	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.9	1240.9	1240.9	1240.9	1240.9
2.5°	1242.1	1240.9	1235.2	1240.9	1242.1
5°	1237.4	1236.2	1230.6	1236.2	1237.4
7.5°	1229.6	1229.6	1223.9	1229.6	1229.6
10°	1219.3	1218.3	1212.4	1218.3	1219.3
12.5°	1204.5	1204.5	1198.9	1204.5	1205.8
15°	1187.6	1187.6	1183.0	1188.6	1188.6
17.5°	1168.2	1169.5	1163.8	1170.4	1170.4
20°	1146.6	1145.7	1142.2	1147.9	1149.1
22.5°	1120.6	1121.9	1118.4	1125.0	1126.3
25°	1094.6	1094.6	1092.2	1099.0	1098.1
27.5°	1066.2	1066.2	1062.7	1068.4	1069.6
30°	1032.0	1033.3	1032.0	1037.9	1036.7
32.5°	1000.4	1001.6	1001.6	1003.8	1004.8
35°	964.1	965.3	965.3	969.7	969.7
37.5°	927.8	927.8	929.0	932.4	932.4
40°	889.2	890.5	890.5	893.7	894.9
42.5°	851.7	849.5	850.7	854.2	854.2
45°	808.8	809.7	811.0	812.2	812.2
47.5°	765.6	767.8	769.0	770.2	769.0
50°	722.4	724.8	724.8	723.6	723.6
52.5°	676.0	681.7	680.4	680.4	682.9
55°	631.8	634.1	635.3	635.3	634.1
57.5°	587.4	589.9	587.4	588.7	586.4
60°	539.8	541.1	539.8	539.8	539.8
62.5°	493.5	494.4	492.2	492.2	492.2
65°	445.8	445.8	445.8	443.4	448.1
67.5°	395.8	398.0	398.0	399.2	394.8
70°	349.4	350.4	349.4	348.2	346.0
72.5°	302.8	304.0	305.0	300.6	299.4
75°	255.2	255.2	254.0	253.0	253.0
77.5°	208.8	208.8	208.8	206.4	206.4
80°	163.4	164.4	162.2	162.2	161.0
82.5°	119.0	119.0	119.0	118.0	115.6
85°	77.0	74.8	76.1	73.6	73.6
87.5°	35.1	35.1	35.1	32.9	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)