

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: P798171

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798171
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-HIGH-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

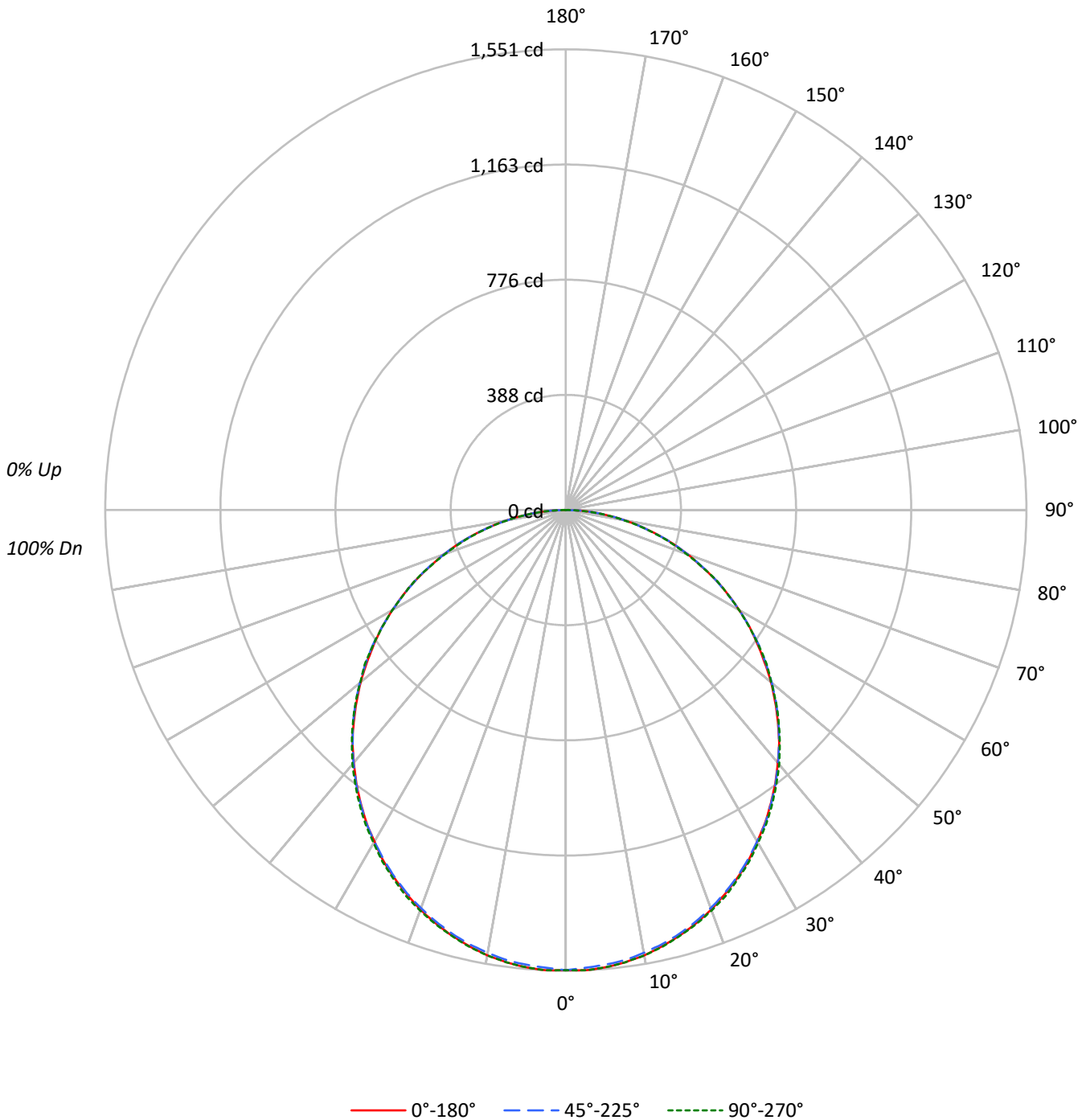
Lumens per Lamp: N/A
Luminaire Lumens: 4430.5 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.2
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	93	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	42	42	42	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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°	4170	4170	4170
5°	4174	4151	4174
10°	4160	4137	4160
15°	4131	4115	4135
20°	4100	4084	4109
25°	4059	4049	4071
30°	4004	4004	4022
35°	3955	3960	3978
40°	3901	3906	3925
45°	3843	3854	3860
50°	3776	3789	3783
55°	3702	3722	3714
60°	3628	3628	3628
65°	3545	3545	3563
70°	3433	3433	3399
75°	3314	3297	3284
80°	3163	3138	3115
85°	2970	2933	2837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 3860 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.3
10°-20°	418.2	9.4
20°-30°	630.2	14.2
30°-40°	755.2	17.0
40°-50°	780.9	17.6
50°-60°	708.1	16.0
60°-70°	550.2	12.4
70°-80°	336.1	7.6
80°-90°	105.2	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°	1194.9	27.0
0°-40°	1950.0	44.0
0°-60°	3439.0	77.6
0°-90°	4430.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1545	1544	1537	1544	1545	147
15°	1483	1483	1477	1484	1484	418
25°	1367	1367	1364	1372	1371	630
35°	1204	1205	1205	1211	1211	753
45°	1010	1011	1013	1014	1014	779
55°	789	792	793	793	792	706
65°	557	557	557	554	560	550
75°	319	319	317	316	316	337
85°	96	94	95	92	92	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549.5	1549.5	1549.5	1549.5	1549.5
2.5°	1551.0	1549.5	1542.4	1549.5	1551.0
5°	1545.2	1543.7	1536.6	1543.7	1545.2
7.5°	1535.4	1535.4	1528.3	1535.4	1535.4
10°	1522.5	1521.3	1513.9	1521.3	1522.5
12.5°	1504.1	1504.1	1497.1	1504.1	1505.7
15°	1483.0	1483.0	1477.2	1484.2	1484.2
17.5°	1458.8	1460.3	1453.3	1461.5	1461.5
20°	1431.8	1430.6	1426.3	1433.3	1434.9
22.5°	1399.3	1400.9	1396.6	1404.9	1406.4
25°	1366.9	1366.9	1363.8	1372.4	1371.1
27.5°	1331.3	1331.3	1327.0	1334.1	1335.6
30°	1288.7	1290.3	1288.7	1296.1	1294.5
32.5°	1249.2	1250.7	1250.7	1253.5	1254.7
35°	1203.9	1205.4	1205.4	1210.9	1210.9
37.5°	1158.5	1158.5	1160.0	1164.3	1164.3
40°	1110.4	1111.9	1111.9	1115.9	1117.4
42.5°	1063.5	1060.8	1062.3	1066.6	1066.6
45°	1009.9	1011.1	1012.7	1014.2	1014.2
47.5°	956.0	958.7	960.3	961.8	960.3
50°	902.0	905.1	905.1	903.6	903.6
52.5°	844.1	851.2	849.7	849.7	852.7
55°	789.0	791.7	793.3	793.3	791.7
57.5°	733.5	736.6	733.5	735.1	732.3
60°	674.1	675.6	674.1	674.1	674.1
62.5°	616.2	617.4	614.6	614.6	614.6
65°	556.7	556.7	556.7	553.7	559.5
67.5°	494.2	497.0	497.0	498.5	493.0
70°	436.3	437.5	436.3	434.8	432.0
72.5°	378.1	379.6	380.9	375.3	373.8
75°	318.7	318.7	317.1	315.9	315.9
77.5°	260.7	260.7	260.7	257.7	257.7
80°	204.1	205.3	202.5	202.5	201.0
82.5°	148.6	148.6	148.6	147.4	144.3
85°	96.2	93.5	95.0	91.9	91.9
87.5°	43.8	43.8	43.8	41.1	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)