

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: P798176

Luminaire Tested: 14GRSCT3-FGW080-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798176
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-LOW-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

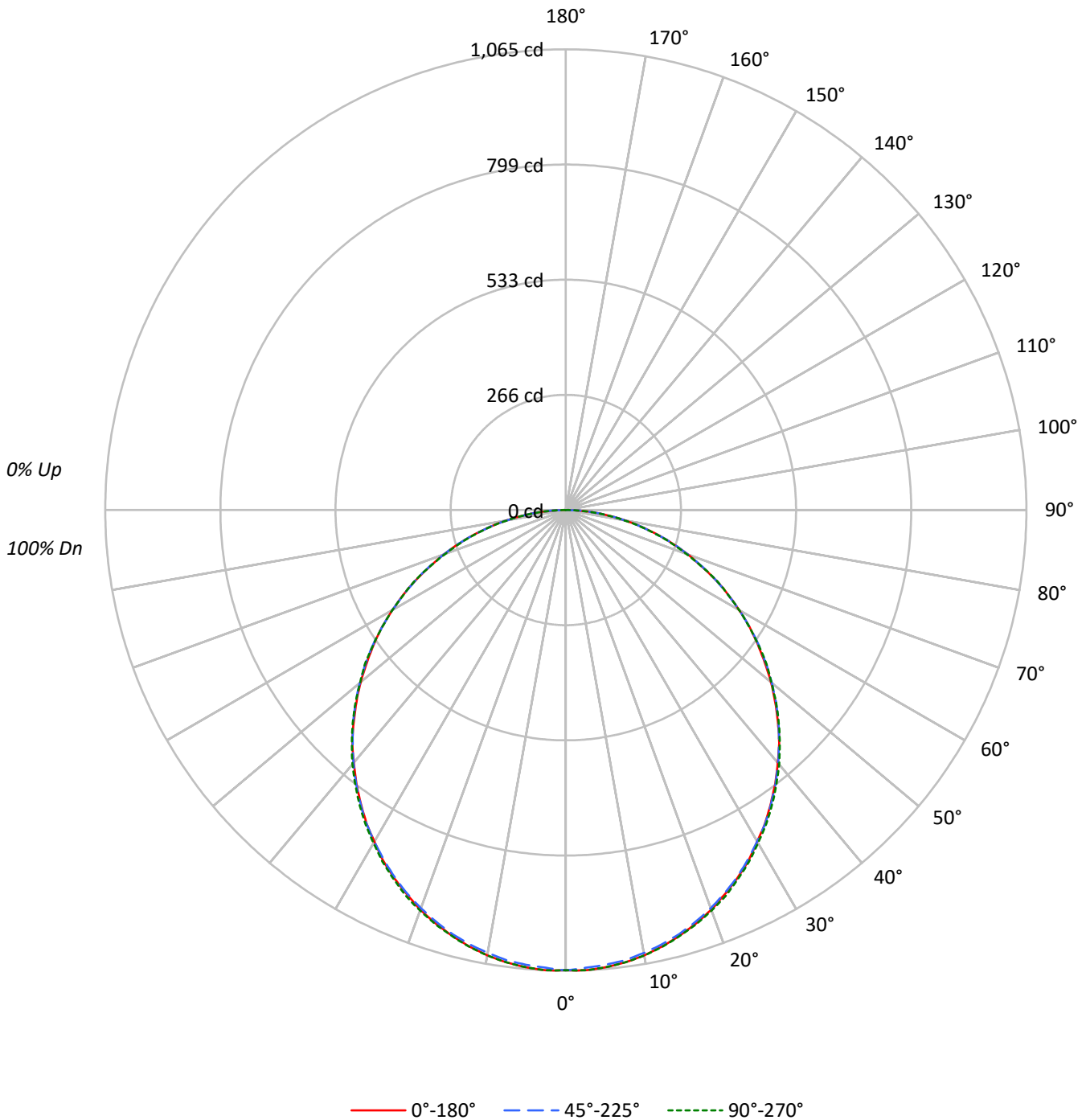
Lumens per Lamp: N/A
Luminaire Lumens: 3042.6 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
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				
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°	2863	2863	2863
5°	2866	2851	2866
10°	2857	2841	2857
15°	2837	2826	2840
20°	2816	2805	2822
25°	2787	2781	2796
30°	2750	2750	2762
35°	2716	2719	2732
40°	2679	2682	2696
45°	2639	2646	2651
50°	2593	2602	2598
55°	2542	2556	2551
60°	2491	2491	2491
65°	2434	2434	2446
70°	2357	2357	2334
75°	2275	2264	2255
80°	2171	2156	2139
85°	2041	2013	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 2651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.3
10°-20°	287.2	9.4
20°-30°	432.8	14.2
30°-40°	518.6	17.0
40°-50°	536.3	17.6
50°-60°	486.3	16.0
60°-70°	377.9	12.4
70°-80°	230.8	7.6
80°-90°	72.2	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°	820.6	27.0
0°-40°	1339.2	44.0
0°-60°	2361.7	77.6
0°-90°	3042.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1061	1060	1055	1060	1061	101
15°	1018	1018	1014	1019	1019	287
25°	939	939	937	942	942	432
35°	827	828	828	832	832	517
45°	694	694	695	696	696	535
55°	542	544	545	545	544	485
65°	382	382	382	380	384	378
75°	219	219	218	217	217	231
85°	66	64	65	63	63	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.1	1064.1	1064.1	1064.1	1064.1
2.5°	1065.1	1064.1	1059.3	1064.1	1065.1
5°	1061.1	1060.1	1055.3	1060.1	1061.1
7.5°	1054.4	1054.4	1049.6	1054.4	1054.4
10°	1045.6	1044.7	1039.7	1044.7	1045.6
12.5°	1033.0	1033.0	1028.1	1033.0	1034.0
15°	1018.4	1018.4	1014.4	1019.3	1019.3
17.5°	1001.8	1002.9	998.0	1003.7	1003.7
20°	983.3	982.5	979.5	984.3	985.4
22.5°	961.0	962.0	959.1	964.8	965.8
25°	938.7	938.7	936.6	942.5	941.6
27.5°	914.3	914.3	911.3	916.2	917.2
30°	885.0	886.1	885.0	890.1	889.0
32.5°	857.9	858.9	858.9	860.8	861.7
35°	826.7	827.8	827.8	831.6	831.6
37.5°	795.6	795.6	796.7	799.6	799.6
40°	762.6	763.6	763.6	766.3	767.4
42.5°	730.4	728.5	729.5	732.5	732.5
45°	693.5	694.4	695.4	696.5	696.5
47.5°	656.5	658.4	659.5	660.5	659.5
50°	619.5	621.6	621.6	620.5	620.5
52.5°	579.7	584.5	583.5	583.5	585.6
55°	541.8	543.7	544.8	544.8	543.7
57.5°	503.7	505.8	503.7	504.8	502.9
60°	462.9	464.0	462.9	462.9	462.9
62.5°	423.2	424.0	422.1	422.1	422.1
65°	382.3	382.3	382.3	380.2	384.2
67.5°	339.4	341.3	341.3	342.4	338.6
70°	299.6	300.5	299.6	298.6	296.7
72.5°	259.7	260.7	261.6	257.8	256.7
75°	218.8	218.8	217.8	216.9	216.9
77.5°	179.1	179.1	179.1	177.0	177.0
80°	140.1	141.0	139.1	139.1	138.0
82.5°	102.1	102.1	102.1	101.2	99.1
85°	66.1	64.2	65.2	63.1	63.1
87.5°	30.1	30.1	30.1	28.2	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)