

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: P798174

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798174
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-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

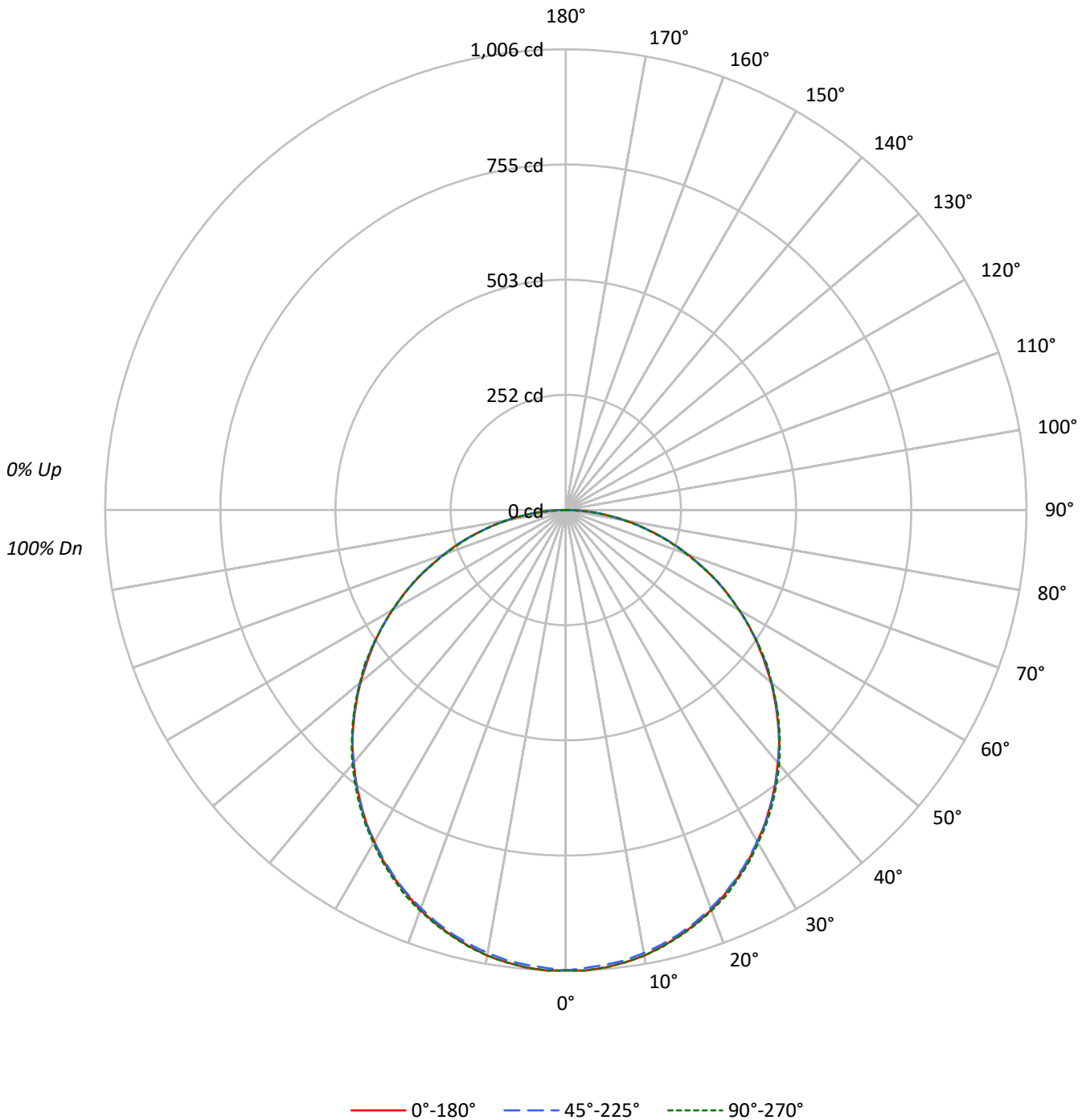
Lumens per Lamp: N/A
Luminaire Lumens: 2874.4 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.4
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°	2705	2705	2705
5°	2708	2693	2708
10°	2699	2684	2699
15°	2680	2670	2683
20°	2660	2650	2666
25°	2633	2627	2641
30°	2598	2598	2610
35°	2566	2569	2581
40°	2531	2534	2547
45°	2493	2500	2504
50°	2450	2458	2454
55°	2402	2415	2410
60°	2354	2354	2354
65°	2300	2300	2311
70°	2227	2227	2205
75°	2149	2139	2130
80°	2052	2036	2021
85°	1927	1902	1840

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 2504 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.3
10°-20°	271.3	9.4
20°-30°	408.8	14.2
30°-40°	489.9	17.0
40°-50°	506.6	17.6
50°-60°	459.4	16.0
60°-70°	357.0	12.4
70°-80°	218.1	7.6
80°-90°	68.2	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°	775.2	27.0
0°-40°	1265.1	44.0
0°-60°	2231.1	77.6
0°-90°	2874.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2874.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1002	1002	997	1002	1002	95
15°	962	962	958	963	963	271
25°	887	887	885	890	890	409
35°	781	782	782	786	786	489
45°	655	656	657	658	658	505
55°	512	514	515	515	514	458
65°	361	361	361	359	363	357
75°	207	207	206	205	205	219
85°	62	61	62	60	60	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.3	1005.3	1005.3	1005.3	1005.3
2.5°	1006.3	1005.3	1000.7	1005.3	1006.3
5°	1002.5	1001.5	996.9	1001.5	1002.5
7.5°	996.1	996.1	991.5	996.1	996.1
10°	987.8	987.0	982.2	987.0	987.8
12.5°	975.8	975.8	971.3	975.8	976.8
15°	962.1	962.1	958.3	962.9	962.9
17.5°	946.4	947.4	942.8	948.2	948.2
20°	928.9	928.1	925.3	929.9	930.9
22.5°	907.9	908.8	906.1	911.4	912.4
25°	886.8	886.8	884.8	890.4	889.6
27.5°	863.7	863.7	860.9	865.5	866.5
30°	836.1	837.1	836.1	840.9	839.9
32.5°	810.5	811.4	811.4	813.2	814.0
35°	781.0	782.0	782.0	785.6	785.6
37.5°	751.6	751.6	752.6	755.4	755.4
40°	720.4	721.4	721.4	724.0	725.0
42.5°	690.0	688.2	689.2	692.0	692.0
45°	655.2	656.0	657.0	658.0	658.0
47.5°	620.2	622.0	623.0	624.0	623.0
50°	585.2	587.2	587.2	586.2	586.2
52.5°	547.7	552.2	551.2	551.2	553.2
55°	511.9	513.7	514.7	514.7	513.7
57.5°	475.9	477.9	475.9	476.9	475.1
60°	437.3	438.3	437.3	437.3	437.3
62.5°	399.8	400.6	398.8	398.8	398.8
65°	361.2	361.2	361.2	359.2	363.0
67.5°	320.6	322.4	322.4	323.4	319.8
70°	283.1	283.9	283.1	282.1	280.3
72.5°	245.3	246.3	247.1	243.5	242.5
75°	206.7	206.7	205.7	204.9	204.9
77.5°	169.2	169.2	169.2	167.2	167.2
80°	132.4	133.2	131.4	131.4	130.4
82.5°	96.4	96.4	96.4	95.6	93.6
85°	62.4	60.6	61.6	59.6	59.6
87.5°	28.4	28.4	28.4	26.6	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)