

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: P798228

Luminaire Tested: 22GRSCT3-FGW080-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798228
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-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

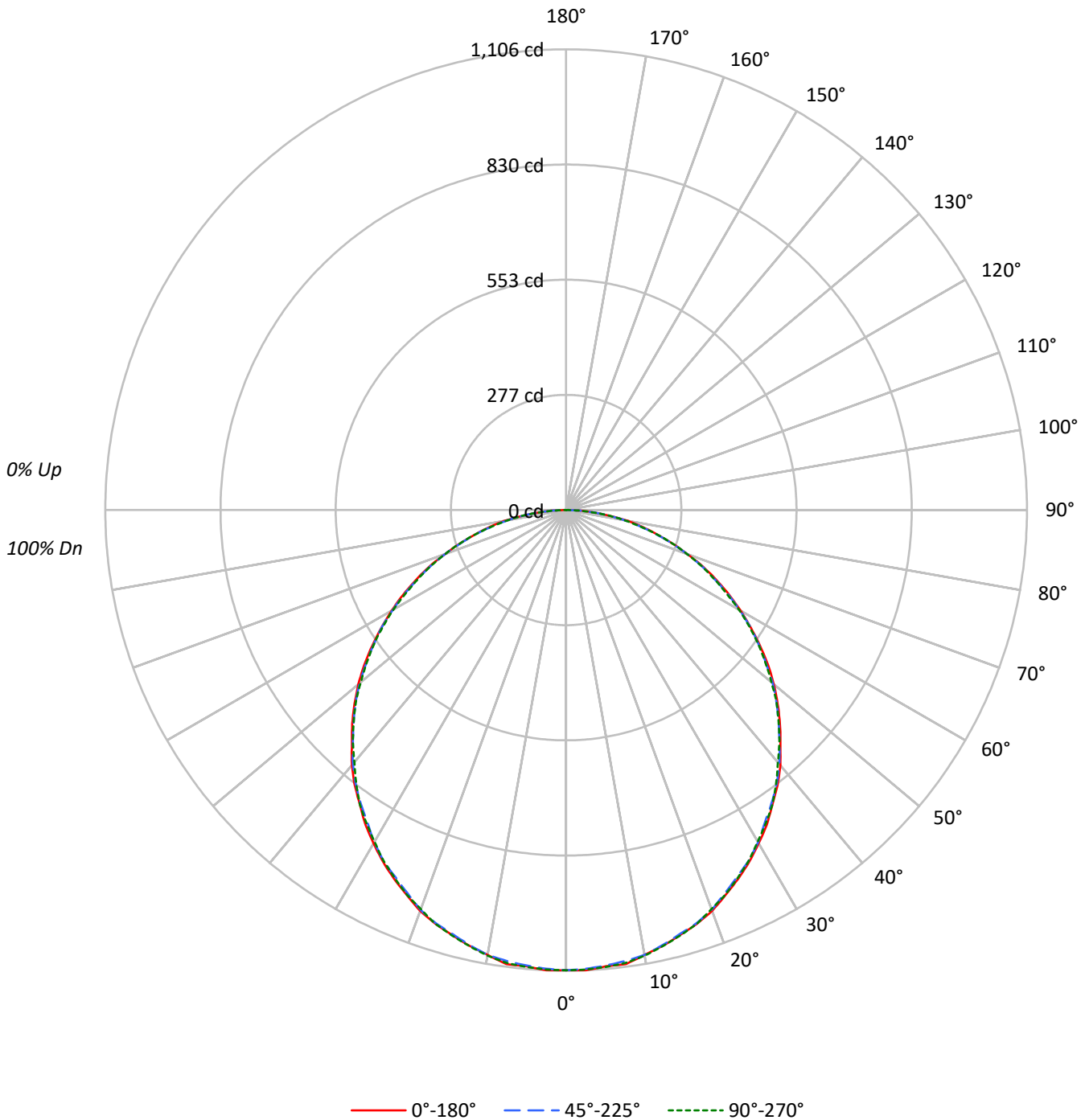
Lumens per Lamp: N/A
Luminaire Lumens: 3156.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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	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°	2974	2974	2974
5°	2970	2964	2975
10°	2964	2964	2968
15°	2944	2936	2946
20°	2933	2925	2920
25°	2901	2884	2893
30°	2872	2863	2857
35°	2835	2823	2835
40°	2810	2797	2778
45°	2762	2744	2744
50°	2725	2709	2693
55°	2665	2649	2644
60°	2604	2589	2579
65°	2537	2509	2497
70°	2435	2429	2435
75°	2351	2322	2342
80°	2328	2211	2199
85°	2062	2001	2032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2762 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	3.3
10°-20°	298.2	9.4
20°-30°	449.1	14.2
30°-40°	538.9	17.1
40°-50°	557.7	17.7
50°-60°	505.3	16.0
60°-70°	391.7	12.4
70°-80°	237.8	7.5
80°-90°	73.6	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°	851.8	27.0
0°-40°	1390.8	44.1
0°-60°	2453.7	77.7
0°-90°	3156.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1099	1099	1097	1100	1101	105
15°	1057	1057	1054	1059	1058	299
25°	977	975	971	975	974	450
35°	863	863	859	860	863	541
45°	726	725	721	721	721	560
55°	568	567	565	564	564	508
65°	398	398	394	396	392	394
75°	226	225	223	223	225	241
85°	67	66	65	65	66	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	1105.8	1101.2	1102.2	1104.0	1104.0
5°	1099.4	1099.4	1097.4	1100.2	1101.2
7.5°	1099.4	1094.7	1091.9	1094.7	1096.7
10°	1084.6	1082.6	1084.6	1083.6	1086.3
12.5°	1071.5	1069.7	1069.7	1072.5	1072.5
15°	1056.6	1056.6	1053.9	1058.6	1057.6
17.5°	1042.0	1042.0	1040.0	1040.0	1042.0
20°	1024.3	1019.6	1021.5	1020.6	1019.6
22.5°	1000.1	997.4	995.6	998.4	999.2
25°	977.0	975.2	971.4	975.2	974.2
27.5°	952.0	950.0	949.2	947.2	949.2
30°	924.2	922.3	921.3	919.5	919.5
32.5°	896.3	892.5	888.0	892.5	891.8
35°	863.0	863.0	859.3	860.2	863.0
37.5°	833.3	831.5	829.5	826.8	827.7
40°	800.0	797.2	796.2	794.5	790.7
42.5°	761.0	761.0	757.4	758.2	757.4
45°	725.9	724.9	721.1	721.1	721.1
47.5°	688.6	687.8	685.1	683.1	685.1
50°	650.8	647.0	647.0	644.2	643.2
52.5°	610.9	608.0	604.4	605.2	603.4
55°	568.1	567.4	564.6	563.6	563.6
57.5°	525.5	526.5	524.5	521.0	521.8
60°	483.9	482.9	481.1	479.2	479.2
62.5°	441.3	441.3	437.6	437.6	433.8
65°	398.5	398.5	394.0	395.7	392.2
67.5°	355.9	355.1	352.1	351.3	352.1
70°	309.5	310.5	308.7	308.7	309.5
72.5°	267.9	266.9	265.9	265.9	267.9
75°	226.1	225.3	223.3	223.3	225.3
77.5°	188.3	183.5	182.5	184.5	181.7
80°	150.2	143.7	142.7	141.9	141.9
82.5°	105.6	102.8	103.8	102.8	104.8
85°	66.8	65.8	64.8	64.8	65.8
87.5°	31.5	29.7	29.7	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)