

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: P798235

Luminaire Tested: 24GRSCT3-A-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-322-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-A-UNV-HIGH-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

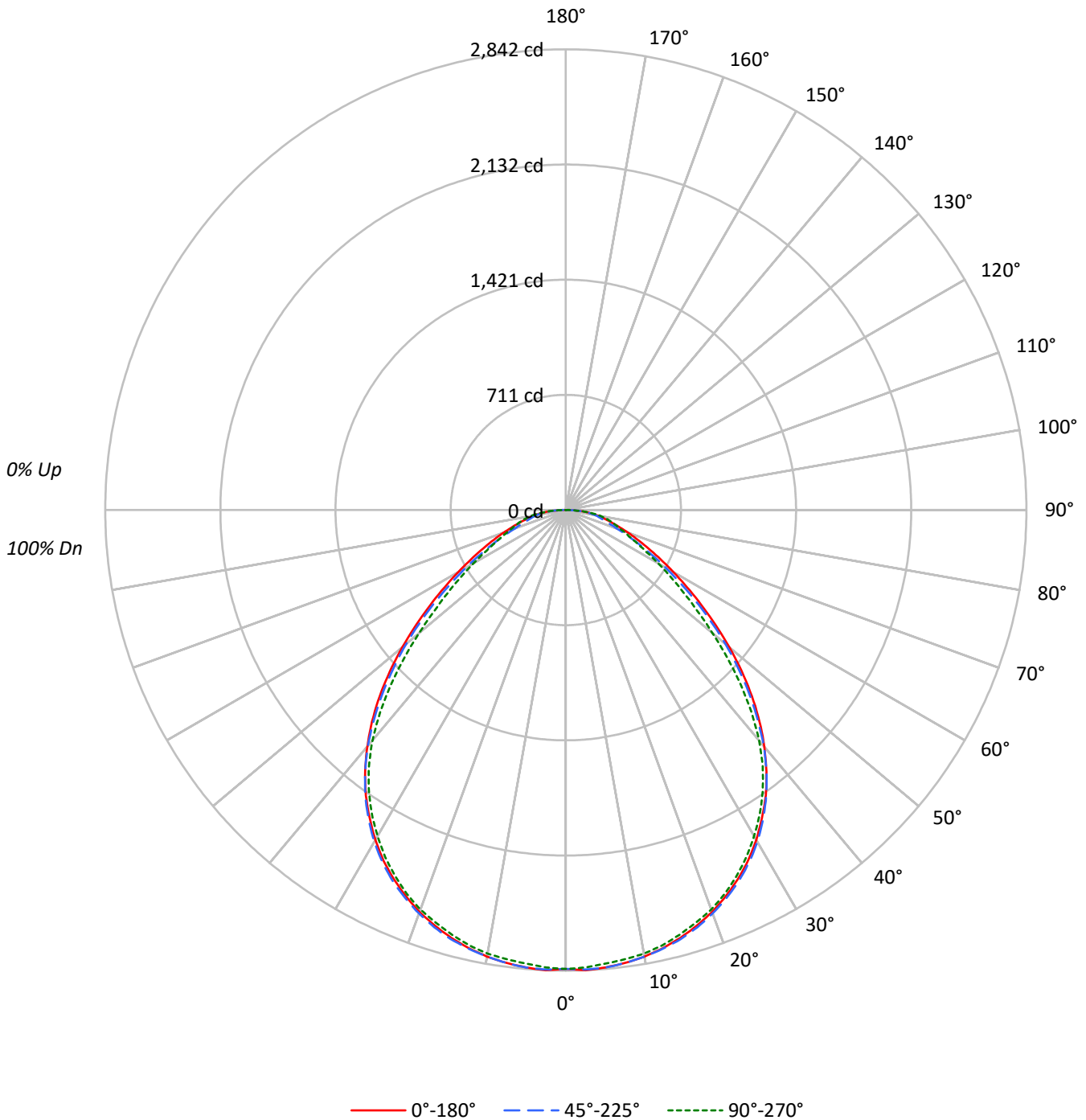
Lumens per Lamp: N/A
Luminaire Lumens: 6540.1 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.5
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	66	66	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	57	57	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	45	45	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	40	40	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3809	3809	3809
5°	3825	3826	3794
10°	3821	3823	3797
15°	3806	3818	3778
20°	3779	3793	3756
25°	3729	3750	3700
30°	3651	3673	3609
35°	3533	3541	3479
40°	3348	3337	3260
45°	3090	3043	2906
50°	2755	2692	2472
55°	2390	2289	2076
60°	2064	1911	1773
65°	1792	1579	1541
70°	1605	1326	1463
75°	1497	1268	1539
80°	1581	1449	1728
85°	1698	1636	1822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3090 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	4.1
10°-20°	770.2	11.8
20°-30°	1156.3	17.7
30°-40°	1334.7	20.4
40°-50°	1215.9	18.6
50°-60°	863.9	13.2
60°-70°	516.5	7.9
70°-80°	296.2	4.5
80°-90°	117.8	1.8
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°	2195.2	33.6
0°-40°	3529.9	54.0
0°-60°	5609.6	85.8
0°-90°	6540.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6540.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2831	2831	2831	2831	2831	
5°	2832	2846	2833	2804	2809	269
15°	2732	2750	2741	2708	2712	771
25°	2512	2533	2526	2495	2492	1156
35°	2151	2162	2156	2119	2118	1340
45°	1624	1619	1599	1535	1527	1247
55°	1019	1016	976	893	885	917
65°	563	535	496	492	484	566
75°	288	279	244	293	296	311
85°	110	107	106	123	118	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2831	2831	2831	2831	2831
2.5°	2842	2850	2837	2809	2824
5°	2832	2846	2833	2804	2809
7.5°	2818	2832	2818	2789	2795
10°	2797	2812	2798	2773	2779
12.5°	2768	2784	2772	2747	2751
15°	2732	2750	2741	2708	2712
17.5°	2688	2709	2699	2666	2669
20°	2639	2658	2649	2620	2623
22.5°	2579	2600	2591	2565	2563
25°	2512	2533	2526	2495	2492
27.5°	2437	2455	2450	2416	2413
30°	2350	2368	2364	2329	2323
32.5°	2253	2270	2265	2232	2227
35°	2151	2162	2156	2119	2118
37.5°	2034	2040	2035	1996	1996
40°	1906	1910	1900	1858	1856
42.5°	1769	1770	1752	1704	1697
45°	1624	1619	1599	1535	1527
47.5°	1471	1459	1442	1366	1353
50°	1316	1304	1286	1195	1181
52.5°	1163	1154	1128	1034	1023
55°	1019	1016	976	893	885
57.5°	886	878	836	770	765
60°	767	749	710	664	659
62.5°	659	634	597	571	562
65°	563	535	496	492	484
67.5°	480	451	409	428	421
70°	408	382	337	379	372
72.5°	343	326	284	334	331
75°	288	279	244	293	296
77.5°	242	236	215	251	262
80°	204	193	187	213	223
82.5°	160	151	151	170	176
85°	110	107	106	123	118
87.5°	59	59	57	63	58
90°	0	0	0	0	0

(END OF REPORT)