

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: P798234

Luminaire Tested: 24GRSCT3-A-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798234
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-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

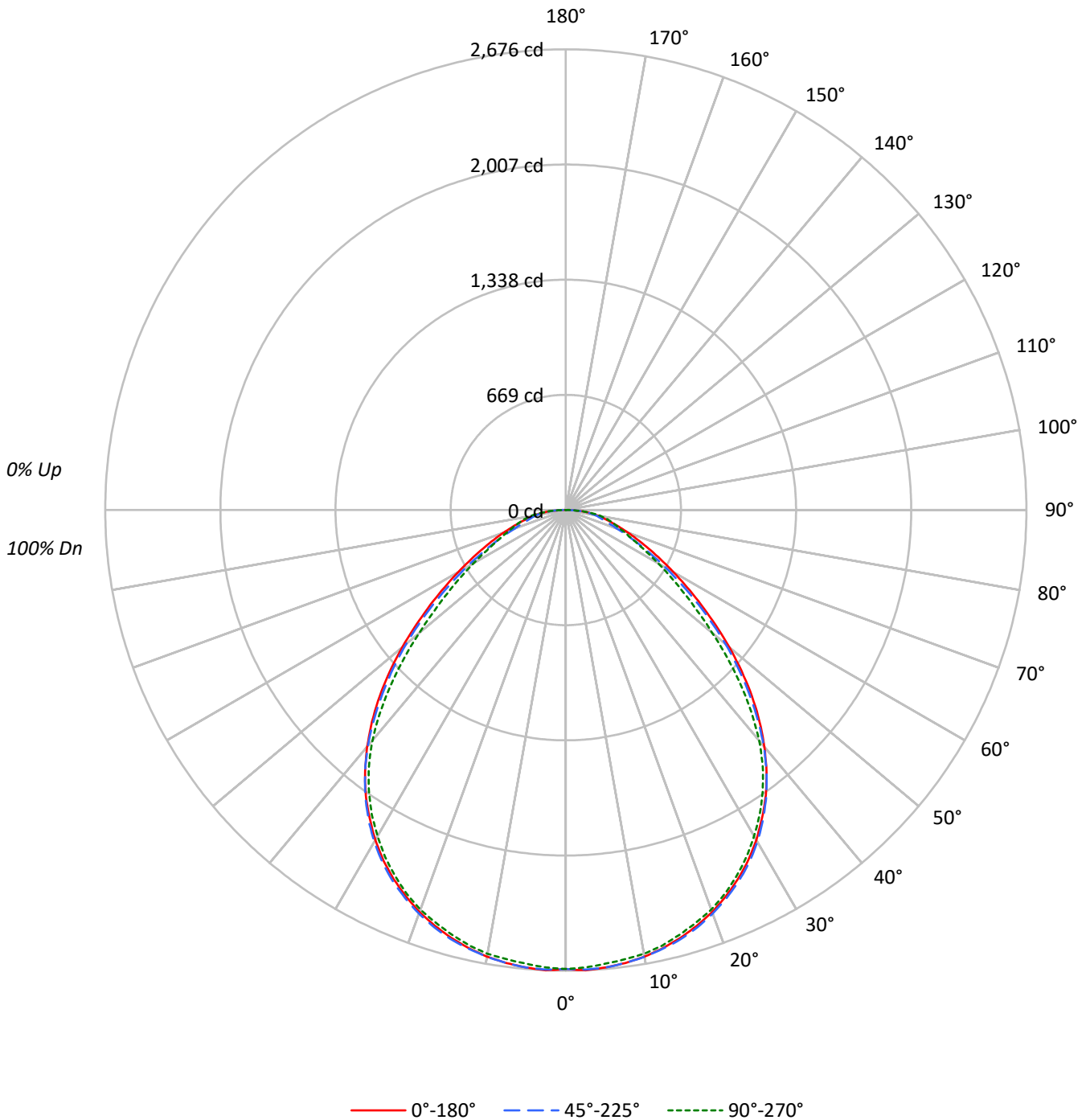
Lumens per Lamp: N/A
Luminaire Lumens: 6159.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.5
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°	3587	3587	3587
5°	3602	3603	3573
10°	3599	3600	3576
15°	3584	3596	3558
20°	3558	3572	3537
25°	3512	3532	3484
30°	3438	3459	3399
35°	3327	3335	3276
40°	3153	3143	3070
45°	2910	2865	2736
50°	2594	2535	2328
55°	2251	2156	1955
60°	1944	1799	1670
65°	1688	1487	1451
70°	1511	1249	1378
75°	1410	1195	1449
80°	1488	1364	1627
85°	1599	1541	1715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.0	4.1
10°-20°	725.4	11.8
20°-30°	1088.9	17.7
30°-40°	1256.9	20.4
40°-50°	1145.0	18.6
50°-60°	813.5	13.2
60°-70°	486.4	7.9
70°-80°	279.0	4.5
80°-90°	110.9	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°	2067.3	33.6
0°-40°	3324.2	54.0
0°-60°	5282.7	85.8
0°-90°	6159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2667	2680	2668	2641	2645	254
15°	2573	2590	2581	2550	2554	726
25°	2366	2385	2379	2350	2347	1089
35°	2026	2036	2030	1996	1995	1262
45°	1529	1525	1506	1446	1438	1175
55°	960	957	919	841	833	864
65°	530	504	467	463	456	533
75°	271	263	230	276	279	293
85°	104	101	100	116	111	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2666.0	2666.0	2666.0	2666.0	2666.0
2.5°	2676.4	2683.9	2671.7	2645.3	2659.5
5°	2667.0	2680.2	2667.9	2640.6	2645.3
7.5°	2653.8	2667.0	2653.8	2626.5	2632.1
10°	2634.0	2648.2	2635.0	2611.4	2617.1
12.5°	2606.7	2621.8	2610.5	2586.9	2590.7
15°	2572.8	2589.8	2581.3	2550.2	2554.0
17.5°	2531.4	2551.2	2541.7	2510.7	2513.5
20°	2485.2	2503.1	2494.6	2467.3	2470.2
22.5°	2428.7	2448.5	2440.0	2415.5	2413.7
25°	2365.6	2385.4	2378.8	2349.6	2346.8
27.5°	2295.0	2312.0	2307.2	2275.2	2272.4
30°	2213.1	2230.0	2226.3	2193.3	2187.6
32.5°	2121.7	2137.7	2133.0	2101.9	2097.2
35°	2025.7	2036.0	2030.4	1995.5	1994.6
37.5°	1915.5	1921.1	1916.4	1879.7	1879.7
40°	1794.9	1798.7	1789.3	1749.7	1747.9
42.5°	1665.9	1666.9	1649.9	1604.7	1598.1
45°	1529.4	1524.7	1505.8	1445.6	1438.0
47.5°	1385.3	1374.0	1358.0	1286.4	1274.2
50°	1239.3	1228.0	1211.1	1125.4	1112.2
52.5°	1095.2	1086.8	1062.3	973.8	963.4
55°	959.6	956.8	919.1	841.0	833.4
57.5°	834.4	826.8	787.3	725.1	720.4
60°	722.3	705.4	668.6	625.3	620.6
62.5°	620.6	597.1	562.2	537.7	529.3
65°	530.2	503.8	467.1	463.3	455.8
67.5°	452.0	424.7	385.2	403.1	396.5
70°	384.2	359.7	317.4	356.9	350.3
72.5°	323.0	307.0	267.5	314.5	311.7
75°	271.2	262.7	229.8	275.9	278.8
77.5°	227.9	222.2	202.5	236.4	246.7
80°	192.1	181.8	176.1	200.6	210.0
82.5°	150.7	142.2	142.2	160.1	165.7
85°	103.6	100.8	99.8	115.8	111.1
87.5°	55.6	55.6	53.7	59.3	54.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)