

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: P798236

Luminaire Tested: 24GRSCT3-A-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798236
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

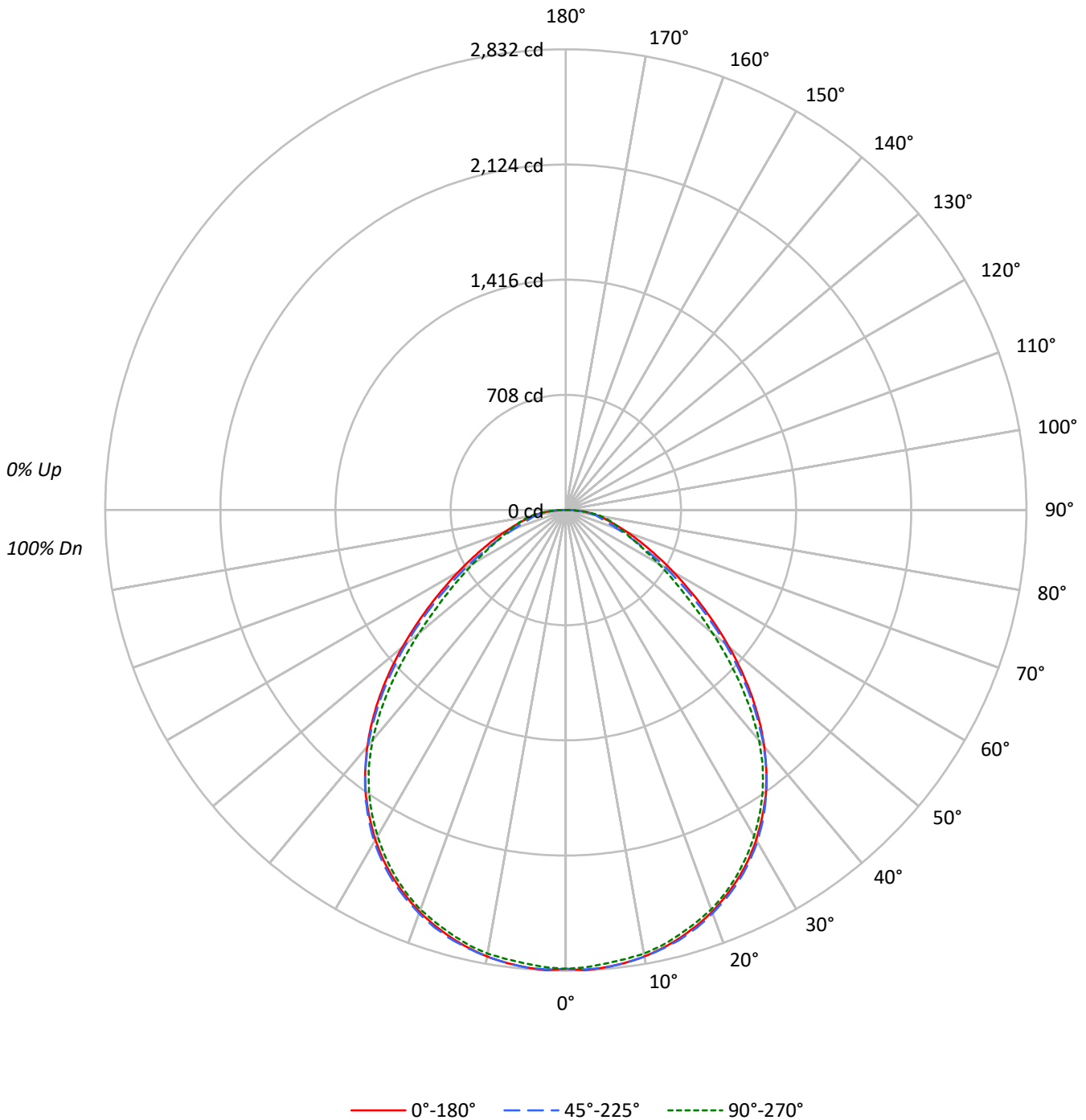
Lumens per Lamp: N/A
Luminaire Lumens: 6516.0 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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°	3795	3795	3795
5°	3811	3812	3780
10°	3807	3809	3783
15°	3791	3804	3764
20°	3765	3779	3742
25°	3716	3736	3686
30°	3638	3659	3596
35°	3520	3528	3466
40°	3335	3325	3248
45°	3079	3031	2895
50°	2745	2682	2463
55°	2381	2281	2068
60°	2056	1904	1767
65°	1786	1573	1535
70°	1599	1321	1458
75°	1491	1264	1533
80°	1574	1444	1722
85°	1692	1630	1815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3079 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	4.1
10°-20°	767.4	11.8
20°-30°	1152.1	17.7
30°-40°	1329.8	20.4
40°-50°	1211.4	18.6
50°-60°	860.7	13.2
60°-70°	514.6	7.9
70°-80°	295.2	4.5
80°-90°	117.3	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°	2187.1	33.6
0°-40°	3516.9	54.0
0°-60°	5589.0	85.8
0°-90°	6516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2821	2821	2821	2821	2821	
5°	2822	2836	2823	2794	2799	268
15°	2722	2740	2731	2698	2702	768
25°	2503	2524	2517	2486	2483	1152
35°	2143	2154	2148	2111	2110	1335
45°	1618	1613	1593	1529	1521	1243
55°	1015	1012	972	890	882	914
65°	561	533	494	490	482	564
75°	287	278	243	292	295	310
85°	110	107	106	122	118	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2831.5	2839.5	2826.6	2798.7	2813.6
5°	2821.6	2835.5	2822.6	2793.7	2798.7
7.5°	2807.6	2821.6	2807.6	2778.7	2784.7
10°	2786.7	2801.6	2787.7	2762.8	2768.8
12.5°	2757.8	2773.8	2761.8	2736.9	2740.9
15°	2721.9	2739.9	2730.9	2698.0	2702.0
17.5°	2678.1	2699.0	2689.1	2656.2	2659.2
20°	2629.3	2648.2	2639.2	2610.4	2613.3
22.5°	2569.5	2590.4	2581.5	2555.6	2553.6
25°	2502.8	2523.7	2516.7	2485.8	2482.8
27.5°	2428.0	2446.0	2441.0	2407.1	2404.1
30°	2341.4	2359.3	2355.3	2320.4	2314.4
32.5°	2244.7	2261.6	2256.7	2223.8	2218.8
35°	2143.1	2154.0	2148.1	2111.2	2110.2
37.5°	2026.5	2032.5	2027.5	1988.7	1988.7
40°	1899.0	1903.0	1893.0	1851.2	1849.2
42.5°	1762.5	1763.5	1745.6	1697.7	1690.8
45°	1618.0	1613.0	1593.1	1529.3	1521.4
47.5°	1465.6	1453.6	1436.7	1361.0	1348.0
50°	1311.2	1299.2	1281.3	1190.6	1176.7
52.5°	1158.7	1149.8	1123.8	1030.2	1019.2
55°	1015.2	1012.3	972.4	889.7	881.7
57.5°	882.7	874.8	832.9	767.2	762.2
60°	764.2	746.2	707.4	661.6	656.6
62.5°	656.6	631.7	594.8	568.9	559.9
65°	560.9	533.0	494.2	490.2	482.2
67.5°	478.2	449.3	407.5	426.4	419.5
70°	406.5	380.6	335.8	377.6	370.6
72.5°	341.7	324.8	283.0	332.8	329.8
75°	286.9	278.0	243.1	291.9	294.9
77.5°	241.1	235.1	214.2	250.1	261.0
80°	203.2	192.3	186.3	212.2	222.2
82.5°	159.4	150.4	150.4	169.4	175.4
85°	109.6	106.6	105.6	122.5	117.6
87.5°	58.8	58.8	56.8	62.8	57.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)