

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: P798261

Luminaire Tested: 24GRSCT3-F1-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292954)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F1-UNV-HIGH-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

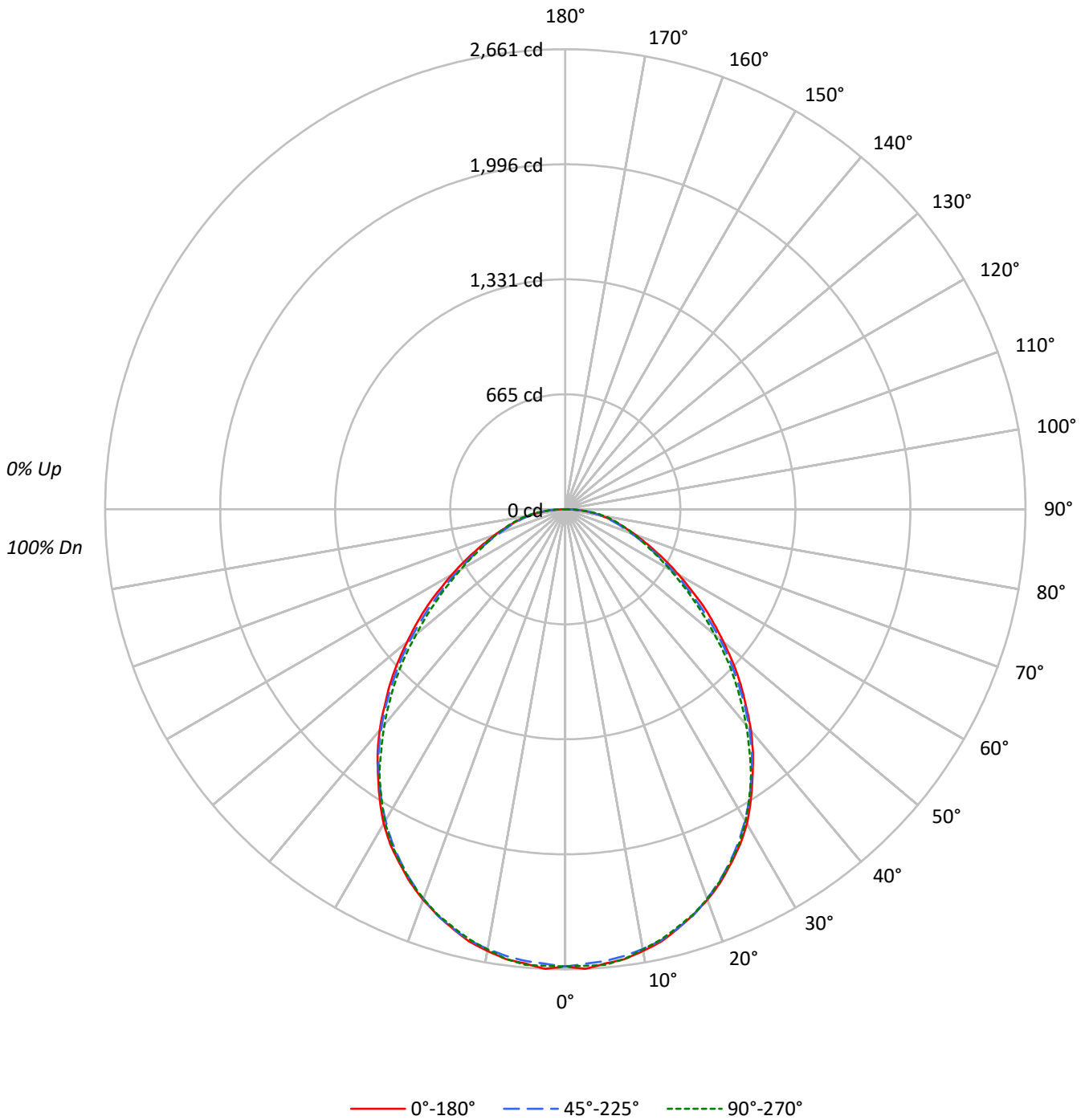
Lumens per Lamp: N/A
Luminaire Lumens: 6087.2 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	100	100	100	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72	72	72	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62	62	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37	37	37	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31	31	31	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3558	3558	3558
5°	3563	3542	3573
10°	3544	3529	3532
15°	3500	3496	3487
20°	3441	3434	3434
25°	3361	3342	3350
30°	3264	3230	3240
35°	3100	3085	3077
40°	2935	2909	2858
45°	2728	2680	2628
50°	2499	2444	2352
55°	2282	2179	2106
60°	2034	1936	1885
65°	1831	1735	1711
70°	1699	1595	1659
75°	1625	1553	1683
80°	1624	1624	1799
85°	1687	1707	1899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	4.1
10°-20°	706.7	11.6
20°-30°	1037.1	17.0
30°-40°	1172.5	19.3
40°-50°	1083.7	17.8
50°-60°	834.9	13.7
60°-70°	552.9	9.1
70°-80°	329.1	5.4
80°-90°	120.6	2.0
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°	1993.5	32.7
0°-40°	3166.0	52.0
0°-60°	5084.6	83.5
0°-90°	6087.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6087.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2644	2644	2644	2644	2644	
5°	2638	2638	2623	2624	2645	251
15°	2512	2507	2510	2508	2503	708
25°	2264	2258	2251	2249	2256	1042
35°	1887	1884	1878	1870	1873	1181
45°	1434	1424	1409	1384	1381	1104
55°	973	953	929	904	898	868
65°	575	566	545	540	537	577
75°	312	305	299	312	324	333
85°	109	103	111	122	123	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2644.2	2644.2	2644.2	2644.2	2644.2
2.5°	2660.6	2646.6	2631.6	2631.6	2642.9
5°	2637.9	2637.9	2622.7	2624.0	2645.3
7.5°	2624.0	2616.6	2606.4	2606.4	2622.7
10°	2594.0	2587.7	2582.7	2580.0	2585.0
12.5°	2561.3	2551.3	2555.0	2551.3	2550.0
15°	2512.4	2507.4	2509.7	2508.4	2503.4
17.5°	2459.5	2457.1	2462.1	2453.4	2457.1
20°	2403.1	2395.5	2398.1	2393.1	2398.1
22.5°	2339.1	2334.1	2327.8	2321.5	2331.5
25°	2263.6	2257.5	2251.2	2248.6	2256.2
27.5°	2188.3	2178.3	2169.6	2167.0	2178.3
30°	2100.6	2089.3	2079.1	2076.7	2085.4
32.5°	1996.3	1993.7	1981.1	1976.1	1980.0
35°	1887.1	1884.5	1878.2	1869.5	1873.2
37.5°	1782.9	1781.5	1772.8	1757.8	1747.6
40°	1671.2	1662.3	1656.0	1634.6	1627.2
42.5°	1548.0	1545.6	1534.3	1510.4	1501.7
45°	1433.8	1423.8	1408.7	1383.5	1381.1
47.5°	1315.8	1301.9	1288.2	1256.8	1255.5
50°	1193.9	1183.9	1167.6	1136.3	1123.6
52.5°	1081.0	1067.3	1044.6	1014.4	1008.3
55°	973.0	953.0	929.1	904.0	897.7
57.5°	857.5	848.8	819.8	799.8	792.2
60°	755.8	748.2	719.5	700.6	700.6
62.5°	664.2	652.9	627.7	615.2	615.2
65°	575.0	566.3	545.0	539.9	537.3
67.5°	498.4	487.1	472.0	470.7	477.1
70°	432.0	418.1	405.5	418.1	421.8
72.5°	369.1	360.4	349.1	365.4	372.8
75°	312.5	305.1	298.8	312.5	323.8
77.5°	261.2	253.5	253.5	268.8	278.8
80°	209.6	204.6	209.6	222.2	232.2
82.5°	160.6	156.9	163.2	175.8	182.2
85°	109.3	102.9	110.6	121.9	123.0
87.5°	51.6	50.3	55.3	62.7	61.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)