

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: P798182

Luminaire Tested: 22GRSCT3-A-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292160)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-A-UNV-HIGH-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

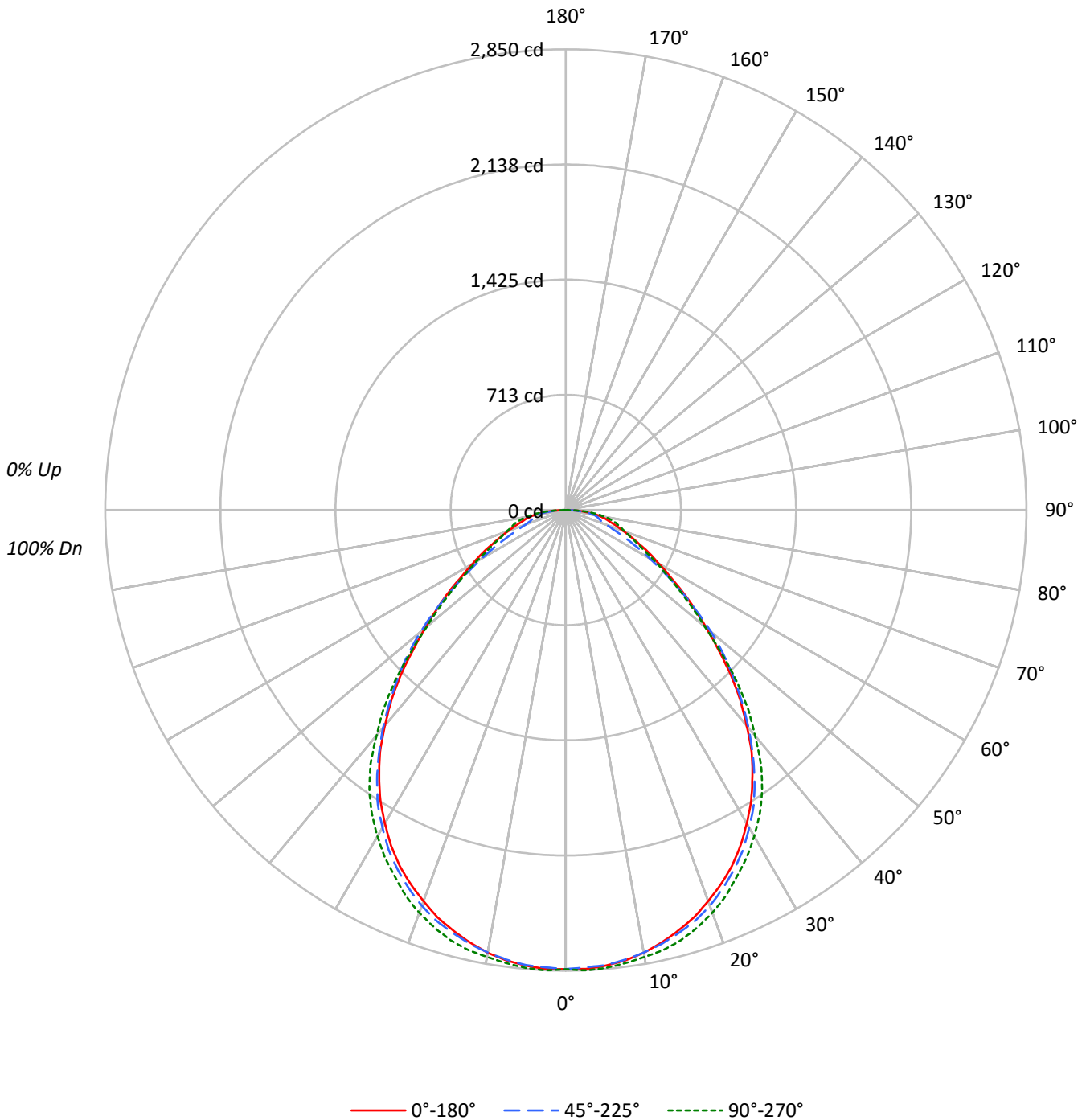
Lumens per Lamp: N/A
Luminaire Lumens: 6202.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50.9
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	74	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64	64	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49	49	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44	44	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39	39	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36	36	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32	32	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7643	7643	7643
5°	7645	7633	7680
10°	7599	7596	7671
15°	7503	7543	7675
20°	7373	7460	7593
25°	7216	7298	7431
30°	6956	7050	7242
35°	6614	6690	6959
40°	6114	6180	6399
45°	5492	5592	5680
50°	4749	4919	4700
55°	4144	4036	3982
60°	3589	3231	3448
65°	3208	2537	3098
70°	2976	2102	3056
75°	2969	2221	3391
80°	3290	2794	3825
85°	3433	3029	4319

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5680 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.8	4.3
10°-20°	765.5	12.3
20°-30°	1132.2	18.3
30°-40°	1277.6	20.6
40°-50°	1126.3	18.2
50°-60°	772.6	12.5
60°-70°	455.9	7.4
70°-80°	284.5	4.6
80°-90°	118.6	1.9
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°	2166.5	34.9
0°-40°	3444.1	55.5
0°-60°	5343.0	86.1
0°-90°	6202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2840	2840	2840	2840	2840	
5°	2830	2824	2826	2836	2843	269
15°	2693	2696	2707	2741	2755	759
25°	2430	2439	2458	2490	2503	1116
35°	2013	2030	2036	2086	2118	1255
45°	1443	1450	1469	1478	1492	1109
55°	883	862	860	831	849	792
65°	504	443	398	460	486	508
75°	286	257	214	299	326	306
85°	111	104	98	128	140	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2840.2	2840.2	2840.2	2840.2	2840.2
2.5°	2841.8	2834.6	2831.7	2843.1	2850.3
5°	2830.0	2824.5	2825.8	2835.9	2843.1
7.5°	2810.2	2805.6	2805.6	2820.3	2827.4
10°	2781.1	2779.8	2779.8	2797.1	2807.2
12.5°	2740.7	2742.3	2747.9	2771.0	2788.3
15°	2693.1	2696.0	2707.4	2740.7	2755.0
17.5°	2641.2	2641.2	2664.1	2690.2	2707.4
20°	2574.7	2579.0	2605.1	2634.1	2651.4
22.5°	2506.9	2514.1	2535.9	2568.9	2584.8
25°	2430.3	2439.1	2458.0	2489.6	2502.7
27.5°	2340.9	2352.3	2372.6	2395.7	2423.1
30°	2238.5	2255.8	2268.9	2300.5	2330.8
32.5°	2134.5	2150.5	2164.8	2198.1	2232.7
35°	2013.2	2030.5	2036.4	2085.6	2118.5
37.5°	1889.3	1896.5	1899.4	1948.3	1984.5
40°	1740.6	1755.0	1759.2	1798.3	1821.5
42.5°	1597.8	1603.3	1612.1	1640.8	1668.5
45°	1443.2	1450.4	1469.3	1477.8	1492.5
47.5°	1281.5	1303.3	1324.9	1297.5	1298.8
50°	1134.4	1151.7	1174.9	1122.7	1122.7
52.5°	1003.0	1011.8	1013.1	969.8	978.6
55°	883.3	861.5	860.2	831.2	848.8
57.5°	763.4	734.7	724.5	715.7	736.0
60°	666.8	614.7	600.3	613.4	640.7
62.5°	587.3	521.1	493.7	526.9	551.4
65°	503.8	443.1	398.5	460.4	486.5
67.5°	438.9	380.9	323.1	411.2	430.1
70°	378.3	333.3	267.1	373.7	388.4
72.5°	329.0	294.4	230.9	337.8	355.1
75°	285.6	257.0	213.6	298.7	326.1
77.5°	251.1	219.5	199.2	258.3	291.5
80°	212.3	180.3	180.3	216.5	246.8
82.5°	167.3	141.5	145.8	176.1	197.6
85°	111.2	104.0	98.1	128.5	139.9
87.5°	56.4	57.7	51.8	66.5	67.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)