

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: P798208

Luminaire Tested: 22GRSCT3-F1-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F1-UNV-HIGH-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

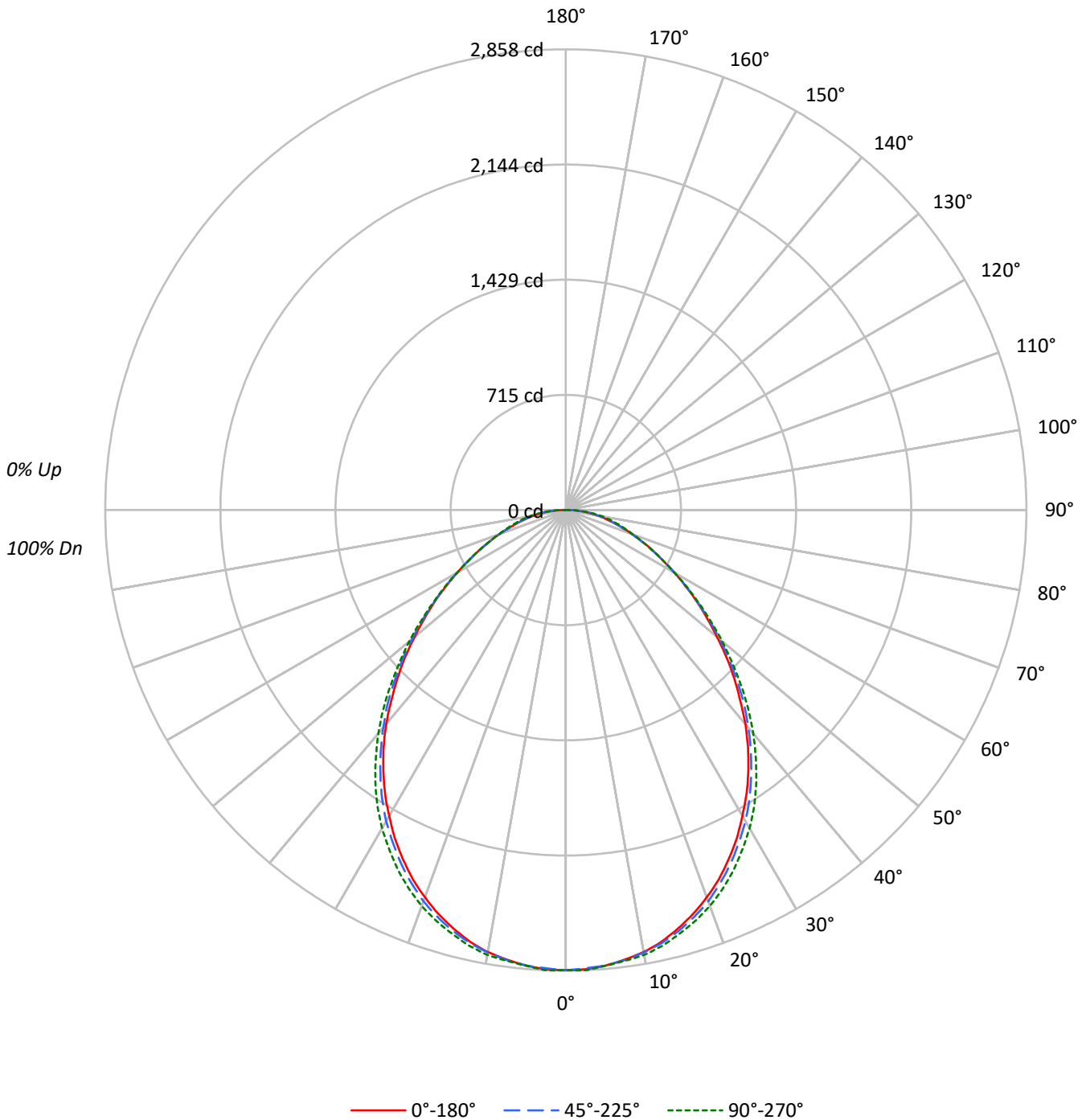
Lumens per Lamp: N/A
Luminaire Lumens: 6515.1 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	50	50	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	44	44	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	40	40	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	36	36	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	32	32	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7682	7682	7682
5°	7663	7660	7666
10°	7610	7618	7659
15°	7491	7533	7583
20°	7322	7397	7485
25°	7099	7185	7316
30°	6808	6926	7084
35°	6484	6590	6767
40°	6091	6189	6354
45°	5621	5727	5849
50°	5124	5212	5304
55°	4668	4686	4733
60°	4193	4193	4193
65°	3782	3763	3782
70°	3454	3423	3501
75°	3202	3213	3441
80°	3130	3239	3595
85°	3273	3489	3983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5849 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	4.1
10°-20°	762.2	11.7
20°-30°	1114.7	17.1
30°-40°	1256.0	19.3
40°-50°	1162.0	17.8
50°-60°	897.4	13.8
60°-70°	592.3	9.1
70°-80°	338.2	5.2
80°-90°	122.8	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°	2146.3	32.9
0°-40°	3402.3	52.2
0°-60°	5461.7	83.8
0°-90°	6515.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6515.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2855	2855	2855	2855	2855	
5°	2837	2841	2836	2836	2838	269
15°	2689	2699	2704	2714	2722	757
25°	2391	2404	2420	2447	2464	1099
35°	1974	1987	2006	2042	2060	1232
45°	1477	1491	1505	1527	1537	1139
55°	995	994	999	1006	1009	890
65°	594	592	591	594	594	593
75°	308	311	309	325	331	330
85°	106	109	113	125	129	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2854.8	2854.8	2854.8	2854.8	<i>2854.8</i>
2.5°	<i>2851.8</i>	<i>2854.8</i>	<i>2845.8</i>	<i>2850.8</i>	<i>2857.8</i>
5°	2836.8	2840.8	2835.8	2835.8	<i>2837.8</i>
7.5°	2812.8	2818.8	2815.8	2818.8	<i>2820.8</i>
10°	2784.9	2789.9	2787.9	2795.8	<i>2802.8</i>
12.5°	2743.9	2749.9	2751.9	2761.9	<i>2768.9</i>
15°	2688.9	2698.9	2703.9	2713.9	<i>2721.9</i>
17.5°	2627.9	2638.9	2647.9	2660.9	<i>2672.9</i>
20°	2556.9	2569.9	2582.9	2599.9	<i>2613.9</i>
22.5°	2479.9	2491.9	2504.9	2527.9	<i>2543.9</i>
25°	2390.9	2403.9	2419.9	2446.9	<i>2463.9</i>
27.5°	2296.9	2308.9	2325.9	2356.9	<i>2372.9</i>
30°	2190.9	2207.9	2228.9	2259.9	<i>2279.9</i>
32.5°	2087.9	2101.9	2121.9	2153.9	<i>2175.9</i>
35°	1973.9	1986.9	2005.9	2041.9	<i>2059.9</i>
37.5°	1856.9	1866.9	1885.9	1921.9	<i>1935.9</i>
40°	1733.9	1743.9	1761.9	1794.9	<i>1808.9</i>
42.5°	1601.9	1618.9	1637.9	1662.9	<i>1676.9</i>
45°	1476.9	1490.9	1504.9	1526.9	<i>1536.9</i>
47.5°	1352.9	1361.9	1374.9	1392.9	<i>1398.9</i>
50°	1223.9	1233.9	1244.9	1257.9	<i>1266.9</i>
52.5°	1105.9	1111.9	1119.9	1127.9	<i>1133.9</i>
55°	994.9	993.9	998.9	1005.9	<i>1008.9</i>
57.5°	882.0	883.0	886.0	890.0	<i>892.0</i>
60°	779.0	778.0	779.0	781.0	<i>779.0</i>
62.5°	682.0	681.0	680.0	682.0	<i>683.0</i>
65°	594.0	592.0	591.0	594.0	<i>594.0</i>
67.5°	513.0	511.0	509.0	515.0	<i>514.0</i>
70°	439.0	438.0	435.0	443.0	<i>445.0</i>
72.5°	370.0	371.0	368.0	384.0	<i>386.0</i>
75°	308.0	311.0	309.0	325.0	<i>331.0</i>
77.5°	254.0	258.0	259.0	273.0	<i>280.0</i>
80°	202.0	205.0	209.0	223.0	<i>232.0</i>
82.5°	154.0	156.0	164.0	173.0	<i>180.0</i>
85°	106.0	109.0	113.0	125.0	<i>129.0</i>
87.5°	55.0	58.0	61.0	72.0	<i>70.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)