

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: P798267

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798267  
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-MID-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

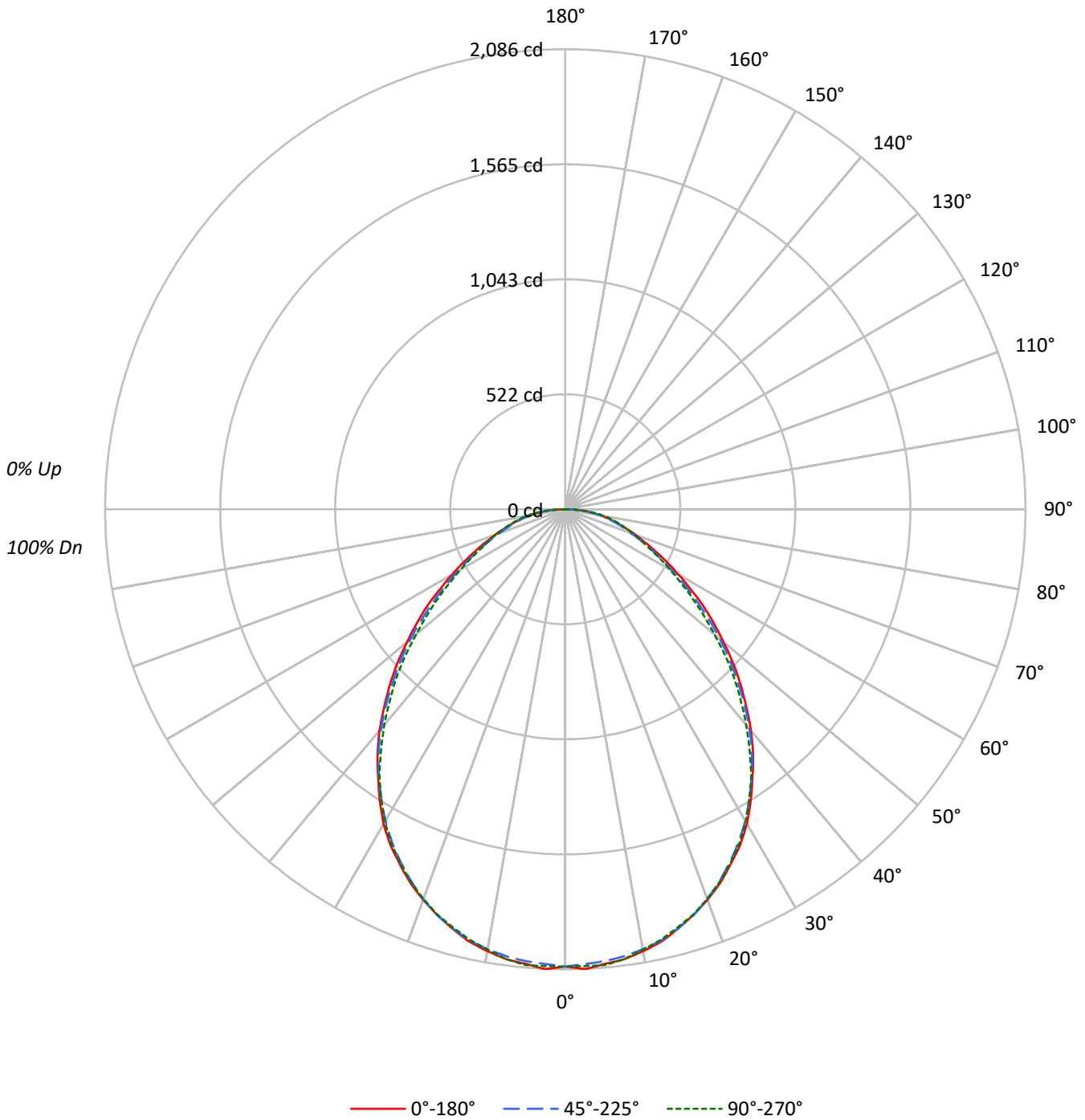
Lumens per Lamp: N/A  
Luminaire Lumens: 4773.7 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 34.4  
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°	2790	2790	2790
5°	2794	2778	2802
10°	2779	2767	2770
15°	2744	2742	2735
20°	2698	2693	2693
25°	2635	2621	2627
30°	2559	2533	2541
35°	2431	2419	2413
40°	2302	2281	2241
45°	2140	2102	2061
50°	1960	1917	1845
55°	1790	1709	1651
60°	1595	1518	1478
65°	1436	1361	1342
70°	1333	1251	1301
75°	1274	1218	1320
80°	1274	1274	1411
85°	1323	1338	1488

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2140 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.8	4.1
10°-20°	554.2	11.6
20°-30°	813.3	17.0
30°-40°	919.5	19.3
40°-50°	849.8	17.8
50°-60°	654.8	13.7
60°-70°	433.6	9.1
70°-80°	258.1	5.4
80°-90°	94.6	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°	1563.4	32.7
0°-40°	2482.9	52.0
0°-60°	3987.5	83.5
0°-90°	4773.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4773.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2069	2069	2057	2058	2074	197
15°	1970	1966	1968	1967	1963	555
25°	1775	1770	1765	1763	1769	817
35°	1480	1478	1473	1466	1469	926
45°	1124	1116	1105	1085	1083	866
55°	763	747	729	709	704	681
65°	451	444	427	423	421	452
75°	245	239	234	245	254	261
85°	86	81	87	96	96	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2073.7	2073.7	2073.7	2073.7	2073.7
2.5°	2086.5	2075.5	2063.8	2063.8	2072.6
5°	2068.7	2068.7	2056.8	2057.8	2074.5
7.5°	2057.8	2052.0	2044.0	2044.0	2056.8
10°	2034.2	2029.3	2025.4	2023.3	2027.2
12.5°	2008.6	2000.8	2003.7	2000.8	1999.8
15°	1970.2	1966.3	1968.2	1967.2	1963.2
17.5°	1928.8	1926.9	1930.8	1924.0	1926.9
20°	1884.6	1878.6	1880.6	1876.7	1880.6
22.5°	1834.4	1830.5	1825.5	1820.6	1828.4
25°	1775.2	1770.4	1765.4	1763.4	1769.4
27.5°	1716.1	1708.3	1701.4	1699.4	1708.3
30°	1647.3	1638.5	1630.4	1628.6	1635.4
32.5°	1565.6	1563.5	1553.6	1549.7	1552.8
35°	1479.9	1477.8	1472.9	1466.1	1469.0
37.5°	1398.1	1397.1	1390.3	1378.5	1370.5
40°	1310.6	1303.6	1298.6	1281.9	1276.1
42.5°	1214.0	1212.1	1203.2	1184.5	1177.6
45°	1124.4	1116.5	1104.8	1085.0	1083.1
47.5°	1031.9	1021.0	1010.2	985.6	984.6
50°	936.3	928.5	915.7	891.1	881.2
52.5°	847.7	837.0	819.2	795.5	790.7
55°	763.1	747.4	728.6	709.0	704.0
57.5°	672.4	665.6	642.9	627.2	621.2
60°	592.7	586.8	564.2	549.4	549.4
62.5°	520.9	512.0	492.2	482.5	482.5
65°	450.9	444.1	427.4	423.4	421.4
67.5°	390.8	382.0	370.2	369.2	374.1
70°	338.8	327.9	318.0	327.9	330.8
72.5°	289.5	282.6	273.8	286.6	292.4
75°	245.1	239.3	234.3	245.1	254.0
77.5°	204.8	198.8	198.8	210.8	218.6
80°	164.4	160.4	164.4	174.3	182.1
82.5°	126.0	123.1	128.0	137.9	142.9
85°	85.7	80.7	86.7	95.6	96.4
87.5°	40.4	39.4	43.4	49.2	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)