

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: P798279

Luminaire Tested: 24GRSCT3-FGW080-UNV-HIGH-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294214)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24GRSCT3-FGW080-UNV-HIGH-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

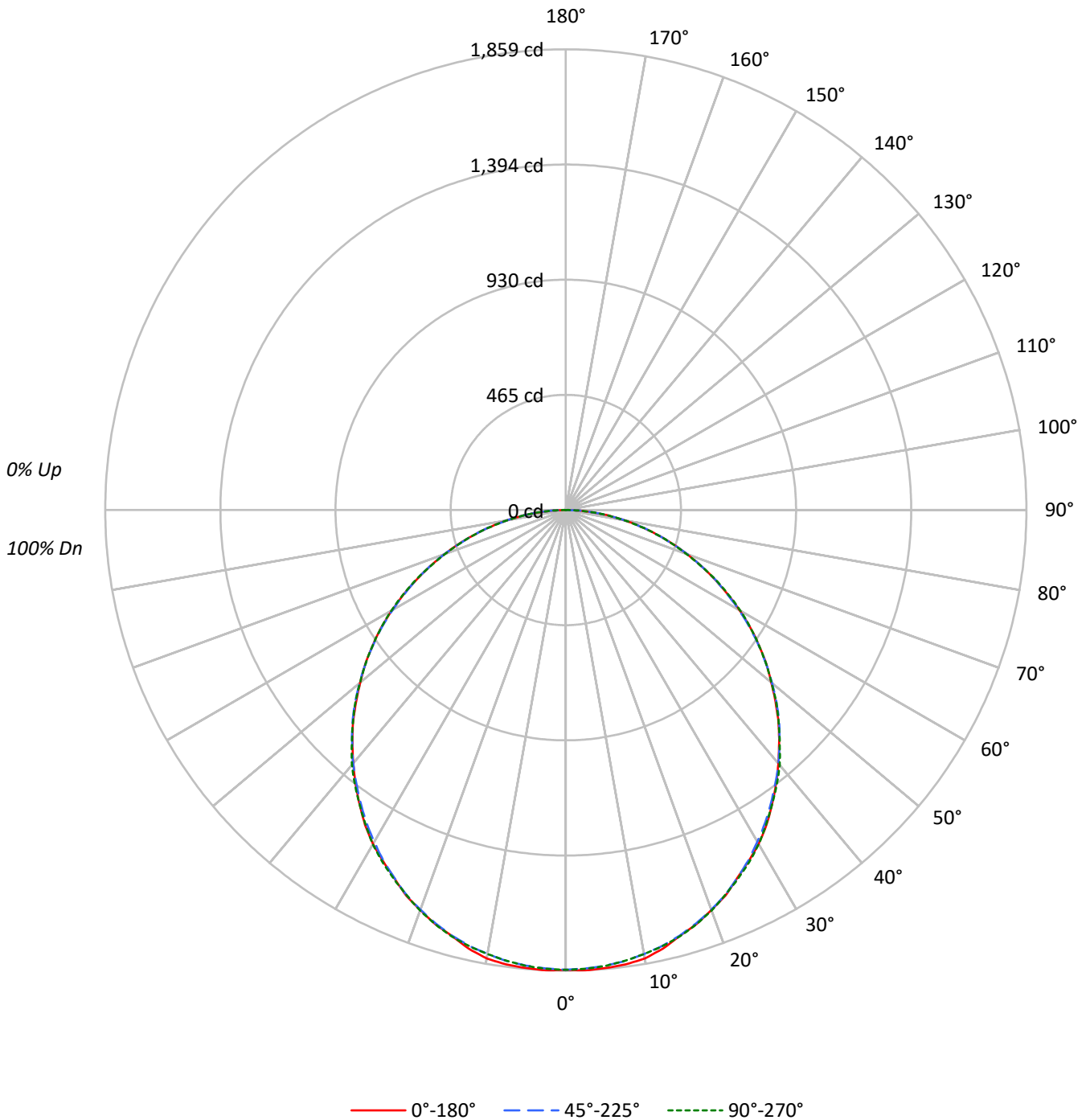
Lumens per Lamp: N/A  
Luminaire Lumens: 5308.1 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2496	2496	2496
5°	2506	2492	2494
10°	2511	2485	2485
15°	2478	2476	2481
20°	2459	2457	2463
25°	2432	2431	2438
30°	2418	2402	2420
35°	2383	2371	2383
40°	2344	2346	2359
45°	2311	2318	2313
50°	2267	2274	2269
55°	2232	2226	2232
60°	2180	2173	2193
65°	2113	2120	2129
70°	2044	2054	2039
75°	1972	1972	1972
80°	1862	1862	1882
85°	1720	1740	1680

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 2318 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.4	3.3
10°-20°	501.5	9.4
20°-30°	755.7	14.2
30°-40°	905.1	17.1
40°-50°	936.9	17.7
50°-60°	849.5	16.0
60°-70°	658.6	12.4
70°-80°	400.6	7.5
80°-90°	124.6	2.3
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°	1432.6	27.0
0°-40°	2337.8	44.0
0°-60°	4124.2	77.7
0°-90°	5308.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5308.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1855	1844	1845	1843	1846	177
15°	1779	1780	1778	1771	1781	503
25°	1638	1638	1638	1642	1642	756
35°	1451	1441	1443	1450	1451	908
45°	1214	1217	1218	1213	1216	935
55°	952	946	949	953	952	850
65°	664	667	666	664	669	658
75°	379	378	379	378	379	401
85°	111	110	113	111	109	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1855.3	1855.3	1855.3	1855.3	1855.3
2.5°	1859.0	1851.4	1851.4	1849.0	1852.7
5°	1855.3	1844.0	1845.3	1842.7	1846.4
7.5°	1849.0	1834.0	1835.3	1832.7	1834.0
10°	1837.7	1820.3	1819.0	1817.6	1819.0
12.5°	1812.6	1802.6	1801.3	1798.9	1802.6
15°	1778.9	1780.0	1777.6	1771.3	1781.3
17.5°	1752.6	1751.3	1748.9	1742.6	1752.6
20°	1717.5	1718.8	1716.2	1713.8	1719.9
22.5°	1683.8	1679.9	1681.2	1679.9	1681.2
25°	1638.5	1638.5	1637.5	1642.5	1642.5
27.5°	1597.4	1592.4	1594.8	1599.8	1602.4
30°	1556.1	1543.4	1546.0	1551.1	1557.4
32.5°	1507.3	1494.7	1497.1	1502.1	1504.7
35°	1450.9	1440.9	1443.3	1449.6	1450.9
37.5°	1393.3	1387.0	1389.6	1394.6	1398.3
40°	1334.5	1331.9	1335.6	1334.5	1343.2
42.5°	1274.4	1273.1	1276.8	1276.8	1278.1
45°	1214.4	1216.8	1218.1	1213.1	1215.5
47.5°	1148.0	1149.1	1154.1	1151.7	1153.0
50°	1082.9	1081.6	1086.6	1087.9	1084.0
52.5°	1020.3	1013.9	1018.9	1021.6	1018.9
55°	951.5	946.5	948.9	952.6	951.5
57.5°	883.8	878.8	880.1	886.2	883.8
60°	810.0	808.7	807.4	812.4	815.0
62.5°	737.3	736.0	733.6	738.6	741.0
65°	663.6	667.3	665.9	663.6	668.6
67.5°	593.3	597.2	593.3	590.9	590.9
70°	519.5	523.2	522.1	519.5	518.2
72.5°	450.7	450.7	448.1	446.8	448.1
75°	379.3	378.0	379.3	378.0	379.3
77.5°	309.3	310.6	310.6	310.6	309.3
80°	240.3	240.3	240.3	241.6	242.9
82.5°	176.5	172.8	176.5	174.1	175.2
85°	111.4	110.1	112.7	111.4	108.8
87.5°	50.1	51.4	51.4	52.7	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)