

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: P798226

Luminaire Tested: 22GRSCT3-FGW080-UNV-HIGH-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292748)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22GRSCT3-FGW080-UNV-HIGH-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

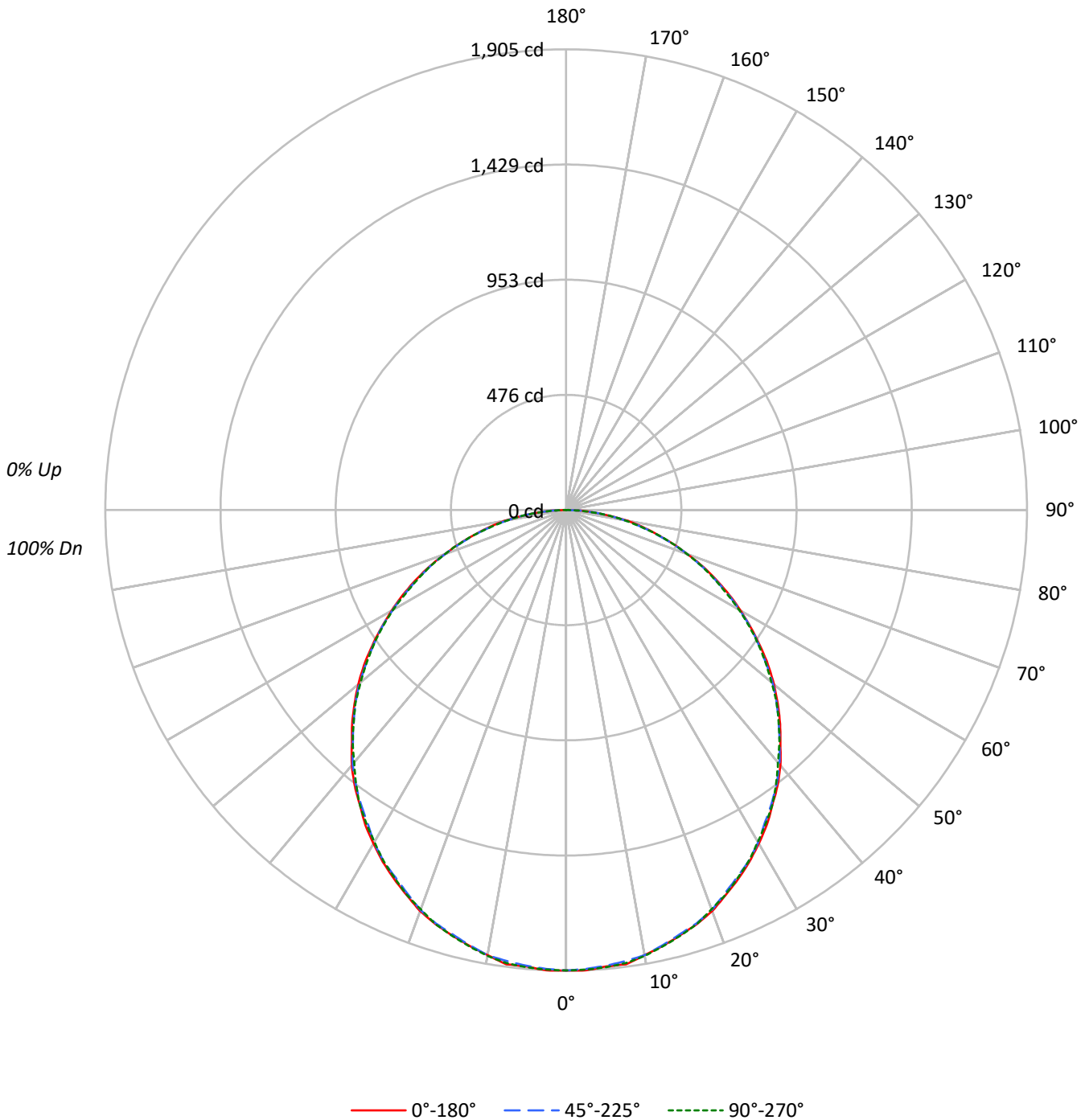
Lumens per Lamp: N/A  
Luminaire Lumens: 5439.4 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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				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	85	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°	5124	5124	5124
5°	5117	5108	5126
10°	5106	5106	5115
15°	5072	5059	5077
20°	5054	5041	5031
25°	4998	4970	4984
30°	4949	4932	4923
35°	4885	4864	4885
40°	4842	4820	4786
45°	4760	4729	4729
50°	4695	4667	4640
55°	4593	4564	4556
60°	4487	4462	4443
65°	4372	4322	4302
70°	4197	4186	4197
75°	4051	4001	4036
80°	4011	3811	3789
85°	3554	3449	3501

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4760 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.1	3.3
10°-20°	513.9	9.4
20°-30°	773.8	14.2
30°-40°	928.6	17.1
40°-50°	960.9	17.7
50°-60°	870.7	16.0
60°-70°	674.9	12.4
70°-80°	409.7	7.5
80°-90°	126.8	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°	1467.8	27.0
0°-40°	2396.4	44.1
0°-60°	4228.0	77.7
0°-90°	5439.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5439.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1894	1894	1891	1896	1898	180
15°	1821	1821	1816	1824	1822	514
25°	1683	1680	1674	1680	1679	776
35°	1487	1487	1481	1482	1487	932
45°	1251	1249	1243	1243	1243	965
55°	979	978	973	971	971	876
65°	687	687	679	682	676	679
75°	390	388	385	385	388	415
85°	115	113	112	112	113	131
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1905.3	1897.5	1899.2	1902.3	1902.3
5°	1894.4	1894.4	1891.0	1895.8	1897.5
7.5°	1894.4	1886.2	1881.4	1886.2	1889.6
10°	1868.8	1865.4	1868.8	1867.1	1871.9
12.5°	1846.3	1843.2	1843.2	1848.0	1848.0
15°	1820.7	1820.7	1815.9	1824.1	1822.4
17.5°	1795.4	1795.4	1792.0	1792.0	1795.4
20°	1765.0	1756.8	1760.2	1758.5	1756.8
22.5°	1723.3	1718.6	1715.5	1720.3	1721.6
25°	1683.4	1680.3	1673.8	1680.3	1678.6
27.5°	1640.4	1637.0	1635.6	1632.2	1635.6
30°	1592.6	1589.1	1587.4	1584.4	1584.4
32.5°	1544.4	1537.9	1530.1	1537.9	1536.6
35°	1487.1	1487.1	1480.6	1482.3	1487.1
37.5°	1435.8	1432.8	1429.3	1424.6	1426.3
40°	1378.5	1373.7	1372.0	1368.9	1362.4
42.5°	1311.2	1311.2	1305.1	1306.4	1305.1
45°	1250.8	1249.1	1242.6	1242.6	1242.6
47.5°	1186.6	1185.2	1180.4	1177.0	1180.4
50°	1121.4	1114.9	1114.9	1110.1	1108.4
52.5°	1052.7	1047.6	1041.4	1042.8	1039.7
55°	979.0	977.6	972.8	971.1	971.1
57.5°	905.5	907.3	903.8	897.7	899.1
60°	833.8	832.1	829.1	825.6	825.6
62.5°	760.4	760.4	753.9	753.9	747.5
65°	686.7	686.7	678.8	681.9	675.7
67.5°	613.3	611.9	606.8	605.4	606.8
70°	533.4	535.1	532.0	532.0	533.4
72.5°	461.7	459.9	458.2	458.2	461.7
75°	389.6	388.2	384.8	384.8	388.2
77.5°	324.4	316.2	314.5	317.9	313.1
80°	258.8	247.6	245.9	244.5	244.5
82.5°	182.0	177.2	178.9	177.2	180.6
85°	115.1	113.4	111.7	111.7	113.4
87.5°	54.3	51.2	51.2	49.5	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)