

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: P798286

Luminaire Tested: 24GRSCT3-FGW080-UNV-MID-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798286  
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-MID-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

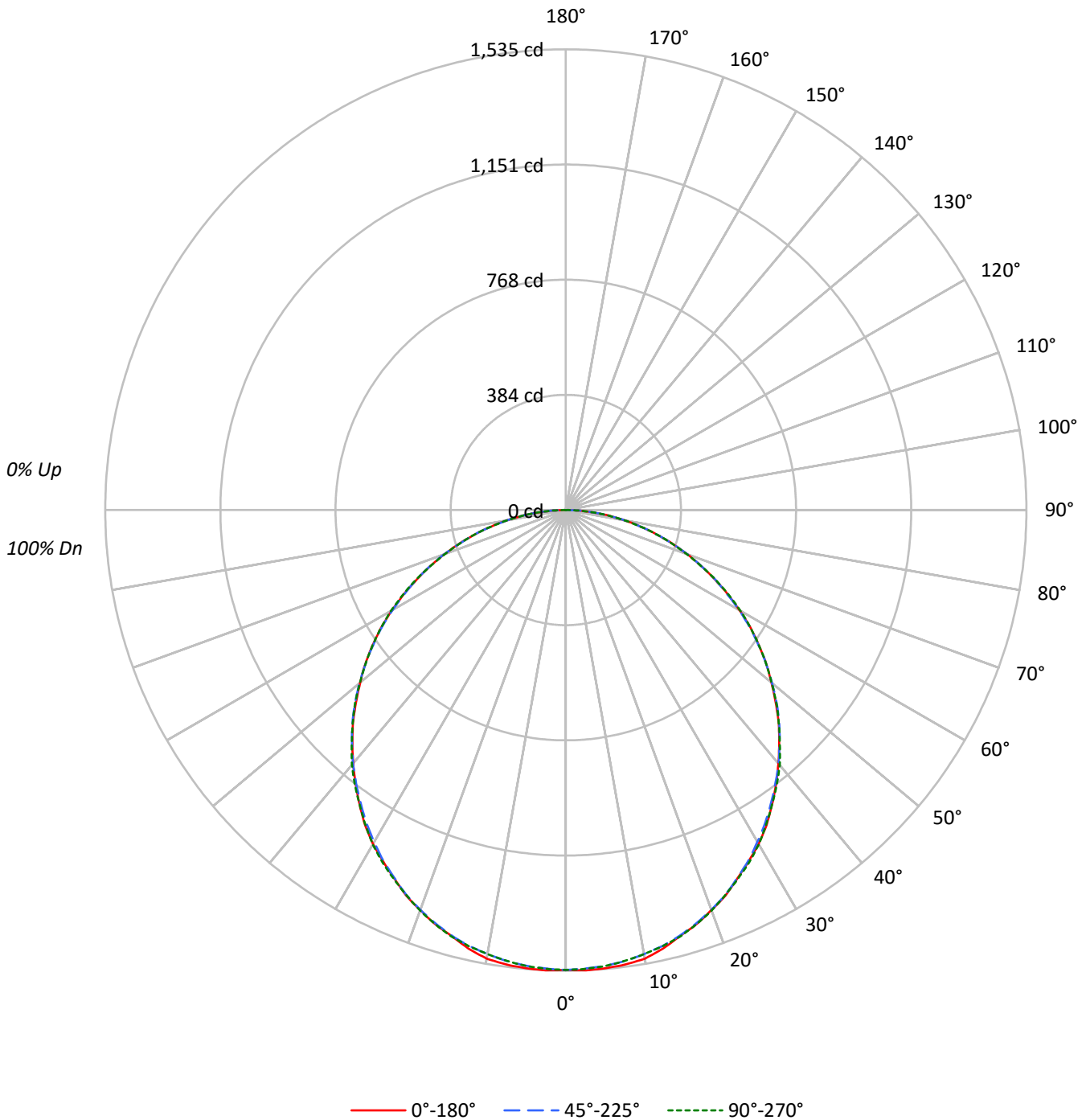
Lumens per Lamp: N/A  
Luminaire Lumens: 4384.1 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

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

	0°	45°	90°
0°	2062	2062	2062
5°	2070	2058	2060
10°	2074	2053	2053
15°	2047	2045	2049
20°	2031	2030	2034
25°	2009	2008	2014
30°	1997	1984	1998
35°	1968	1958	1968
40°	1936	1937	1949
45°	1909	1914	1910
50°	1872	1879	1874
55°	1844	1838	1844
60°	1800	1795	1812
65°	1745	1751	1758
70°	1688	1696	1684
75°	1629	1629	1629
80°	1537	1537	1554
85°	1420	1437	1388

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1914 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.9	3.3
10°-20°	414.2	9.4
20°-30°	624.2	14.2
30°-40°	747.6	17.1
40°-50°	773.9	17.7
50°-60°	701.7	16.0
60°-70°	544.0	12.4
70°-80°	330.8	7.5
80°-90°	102.9	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°	1183.3	27.0
0°-40°	1930.9	44.0
0°-60°	3406.4	77.7
0°-90°	4384.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4384.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1523	1524	1522	1525	146
15°	1469	1470	1468	1463	1471	415
25°	1353	1353	1352	1357	1357	625
35°	1198	1190	1192	1197	1198	750
45°	1003	1005	1006	1002	1004	773
55°	786	782	784	787	786	702
65°	548	551	550	548	552	543
75°	313	312	313	312	313	331
85°	92	91	93	92	90	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1535.4	1529.1	1529.1	1527.2	1530.2
5°	1532.4	1523.0	1524.1	1522.0	1525.0
7.5°	1527.2	1514.8	1515.8	1513.7	1514.8
10°	1517.8	1503.4	1502.4	1501.3	1502.4
12.5°	1497.1	1488.9	1487.8	1485.8	1488.9
15°	1469.3	1470.2	1468.2	1463.0	1471.3
17.5°	1447.5	1446.5	1444.5	1439.3	1447.5
20°	1418.6	1419.7	1417.5	1415.5	1420.6
22.5°	1390.7	1387.5	1388.6	1387.5	1388.6
25°	1353.3	1353.3	1352.4	1356.6	1356.6
27.5°	1319.4	1315.2	1317.2	1321.3	1323.5
30°	1285.2	1274.8	1277.0	1281.1	1286.3
32.5°	1245.0	1234.5	1236.5	1240.6	1242.8
35°	1198.4	1190.1	1192.1	1197.3	1198.4
37.5°	1150.8	1145.6	1147.7	1151.8	1154.9
40°	1102.2	1100.1	1103.1	1102.2	1109.4
42.5°	1052.6	1051.5	1054.6	1054.6	1055.7
45°	1003.0	1005.0	1006.1	1001.9	1003.9
47.5°	948.2	949.1	953.2	951.2	952.3
50°	894.4	893.4	897.5	898.6	895.3
52.5°	842.7	837.5	841.6	843.8	841.6
55°	785.9	781.7	783.7	786.8	785.9
57.5°	730.0	725.8	726.9	731.9	730.0
60°	669.0	668.0	666.9	671.0	673.2
62.5°	609.0	607.9	605.9	610.1	612.1
65°	548.1	551.1	550.0	548.1	552.2
67.5°	490.0	493.2	490.0	488.0	488.0
70°	429.1	432.1	431.2	429.1	428.0
72.5°	372.3	372.3	370.1	369.0	370.1
75°	313.3	312.2	313.3	312.2	313.3
77.5°	255.4	256.5	256.5	256.5	255.4
80°	198.4	198.4	198.4	199.5	200.6
82.5°	145.8	142.7	145.8	143.8	144.7
85°	92.0	91.0	93.1	92.0	89.9
87.5°	41.3	42.4	42.4	43.5	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)