

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: P798281

Luminaire Tested: 24GRSCT3-FGW080-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798281
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

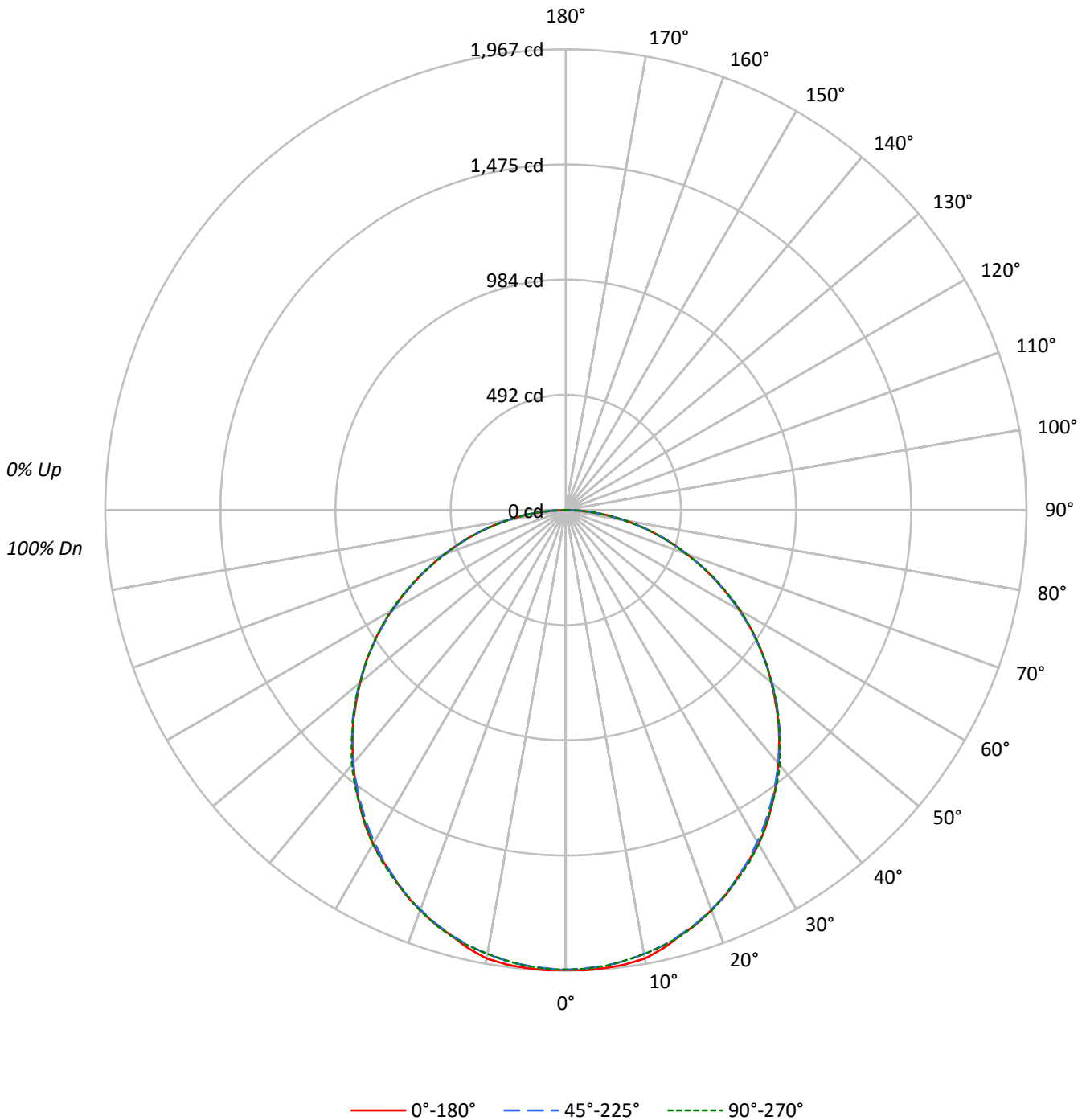
Lumens per Lamp: N/A
Luminaire Lumens: 5615.7 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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°	2641	2641	2641
5°	2651	2637	2638
10°	2656	2629	2629
15°	2622	2620	2625
20°	2602	2600	2605
25°	2574	2572	2580
30°	2558	2541	2560
35°	2521	2508	2521
40°	2480	2482	2496
45°	2445	2452	2447
50°	2398	2406	2401
55°	2361	2355	2361
60°	2306	2299	2320
65°	2235	2243	2252
70°	2162	2173	2157
75°	2086	2086	2086
80°	1970	1970	1991
85°	1820	1842	1777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2452 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	3.3
10°-20°	530.5	9.4
20°-30°	799.5	14.2
30°-40°	957.6	17.1
40°-50°	991.2	17.7
50°-60°	898.8	16.0
60°-70°	696.8	12.4
70°-80°	423.8	7.5
80°-90°	131.8	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°	1515.7	27.0
0°-40°	2473.3	44.0
0°-60°	4363.3	77.7
0°-90°	5615.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5615.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1963	1963	1963	1963	1963	
5°	1963	1951	1952	1950	1953	187
15°	1882	1883	1881	1874	1885	532
25°	1734	1734	1732	1738	1738	800
35°	1535	1524	1527	1534	1535	960
45°	1285	1287	1289	1283	1286	990
55°	1007	1001	1004	1008	1007	900
65°	702	706	705	702	707	696
75°	401	400	401	400	401	424
85°	118	116	119	118	115	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1966.8	1958.7	1958.7	1956.2	1960.1
5°	1962.8	1950.9	1952.2	1949.5	1953.4
7.5°	1956.2	1940.3	1941.7	1938.9	1940.3
10°	1944.2	1925.8	1924.4	1923.0	1924.4
12.5°	1917.7	1907.1	1905.7	1903.2	1907.1
15°	1882.0	1883.2	1880.6	1874.0	1884.6
17.5°	1854.2	1852.8	1850.3	1843.6	1854.2
20°	1817.1	1818.5	1815.7	1813.2	1819.6
22.5°	1781.4	1777.3	1778.6	1777.3	1778.6
25°	1733.5	1733.5	1732.4	1737.7	1737.7
27.5°	1690.0	1684.7	1687.2	1692.5	1695.3
30°	1646.3	1632.9	1635.7	1641.0	1647.6
32.5°	1594.7	1581.3	1583.9	1589.2	1591.9
35°	1535.0	1524.5	1527.0	1533.7	1535.0
37.5°	1474.0	1467.4	1470.1	1475.4	1479.3
40°	1411.9	1409.1	1413.0	1411.9	1421.1
42.5°	1348.3	1346.9	1350.8	1350.8	1352.2
45°	1284.8	1287.3	1288.7	1283.4	1285.9
47.5°	1214.5	1215.7	1221.0	1218.5	1219.8
50°	1145.7	1144.3	1149.6	1151.0	1146.9
52.5°	1079.4	1072.7	1078.0	1080.8	1078.0
55°	1006.6	1001.3	1003.9	1007.8	1006.6
57.5°	935.0	929.7	931.1	937.6	935.0
60°	857.0	855.6	854.2	859.5	862.3
62.5°	780.1	778.7	776.2	781.5	784.0
65°	702.0	705.9	704.6	702.0	707.3
67.5°	627.6	631.8	627.6	625.1	625.1
70°	549.6	553.5	552.4	549.6	548.2
72.5°	476.8	476.8	474.1	472.7	474.1
75°	401.3	399.9	401.3	399.9	401.3
77.5°	327.2	328.6	328.6	328.6	327.2
80°	254.2	254.2	254.2	255.6	257.0
82.5°	186.7	182.8	186.7	184.2	185.3
85°	117.9	116.5	119.3	117.9	115.1
87.5°	53.0	54.3	54.3	55.7	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)