

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: P798280

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798280
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

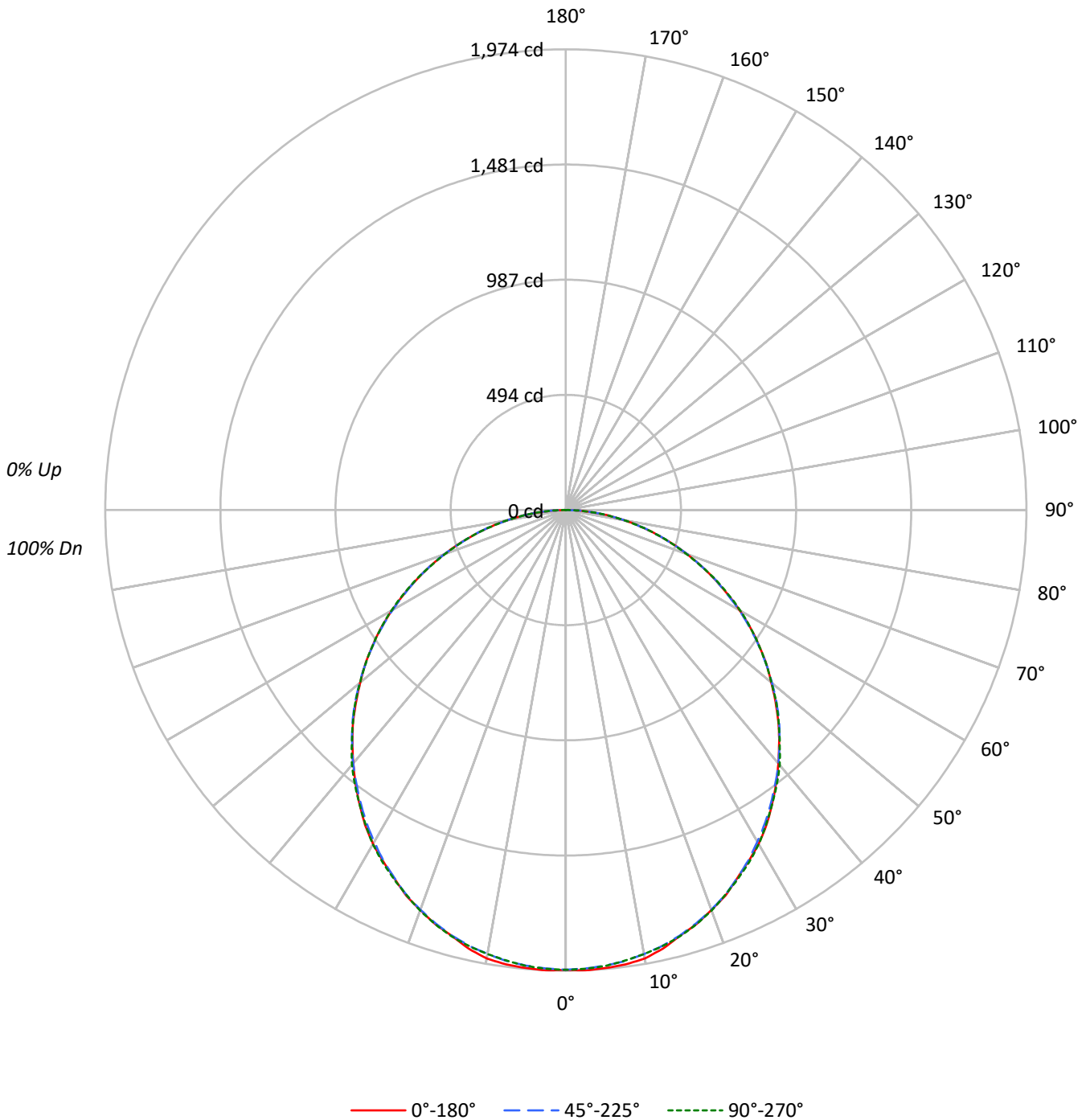
Lumens per Lamp: N/A
Luminaire Lumens: 5636.4 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.5
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				
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°	2651	2651	2651
5°	2661	2646	2648
10°	2666	2639	2639
15°	2631	2629	2635
20°	2611	2609	2615
25°	2583	2581	2589
30°	2567	2551	2569
35°	2531	2517	2531
40°	2489	2491	2505
45°	2454	2461	2456
50°	2407	2415	2409
55°	2370	2364	2370
60°	2315	2307	2329
65°	2243	2251	2260
70°	2170	2181	2164
75°	2094	2094	2094
80°	1977	1977	1998
85°	1826	1848	1783

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2461 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	3.3
10°-20°	532.5	9.4
20°-30°	802.5	14.2
30°-40°	961.1	17.1
40°-50°	994.9	17.7
50°-60°	902.1	16.0
60°-70°	699.4	12.4
70°-80°	425.3	7.5
80°-90°	132.3	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°	1521.2	27.0
0°-40°	2482.4	44.0
0°-60°	4379.4	77.7
0°-90°	5636.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5636.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1970	1958	1959	1957	1961	187
15°	1889	1890	1888	1881	1892	534
25°	1740	1740	1739	1744	1744	803
35°	1541	1530	1533	1539	1541	964
45°	1290	1292	1293	1288	1291	993
55°	1010	1005	1008	1012	1010	903
65°	705	708	707	705	710	699
75°	403	401	403	401	403	425
85°	118	117	120	118	116	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1970.1	1970.1	1970.1	1970.1	1970.1
2.5°	1974.0	1965.9	1965.9	1963.4	1967.3
5°	1970.1	1958.1	1959.4	1956.7	1960.6
7.5°	1963.4	1947.4	1948.8	1946.0	1947.4
10°	1951.4	1932.9	1931.5	1930.1	1931.5
12.5°	1924.8	1914.1	1912.8	1910.2	1914.1
15°	1889.0	1890.1	1887.6	1880.9	1891.5
17.5°	1861.0	1859.6	1857.1	1850.4	1861.0
20°	1823.8	1825.2	1822.4	1819.9	1826.3
22.5°	1788.0	1783.8	1785.2	1783.8	1785.2
25°	1739.9	1739.9	1738.7	1744.1	1744.1
27.5°	1696.2	1690.9	1693.5	1698.8	1701.5
30°	1652.3	1638.9	1641.7	1647.0	1653.7
32.5°	1600.6	1587.1	1589.7	1595.0	1597.8
35°	1540.7	1530.1	1532.6	1539.3	1540.7
37.5°	1479.5	1472.8	1475.5	1480.8	1484.8
40°	1417.1	1414.3	1418.2	1417.1	1426.3
42.5°	1353.3	1351.9	1355.8	1355.8	1357.2
45°	1289.5	1292.0	1293.4	1288.1	1290.7
47.5°	1219.0	1220.2	1225.5	1222.9	1224.3
50°	1149.9	1148.5	1153.8	1155.2	1151.1
52.5°	1083.4	1076.7	1082.0	1084.8	1082.0
55°	1010.3	1005.0	1007.6	1011.5	1010.3
57.5°	938.5	933.2	934.5	941.0	938.5
60°	860.1	858.7	857.4	862.7	865.4
62.5°	782.9	781.6	779.0	784.3	786.9
65°	704.6	708.5	707.1	704.6	709.9
67.5°	630.0	634.1	630.0	627.4	627.4
70°	551.6	555.5	554.4	551.6	550.2
72.5°	478.6	478.6	475.8	474.4	475.8
75°	402.8	401.4	402.8	401.4	402.8
77.5°	328.4	329.8	329.8	329.8	328.4
80°	255.1	255.1	255.1	256.5	257.9
82.5°	187.4	183.5	187.4	184.9	186.0
85°	118.3	116.9	119.7	118.3	115.5
87.5°	53.2	54.5	54.5	55.9	55.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)