

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: P798187

Luminaire Tested: 22GRSCT3-A-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292160)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-A-UNV-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

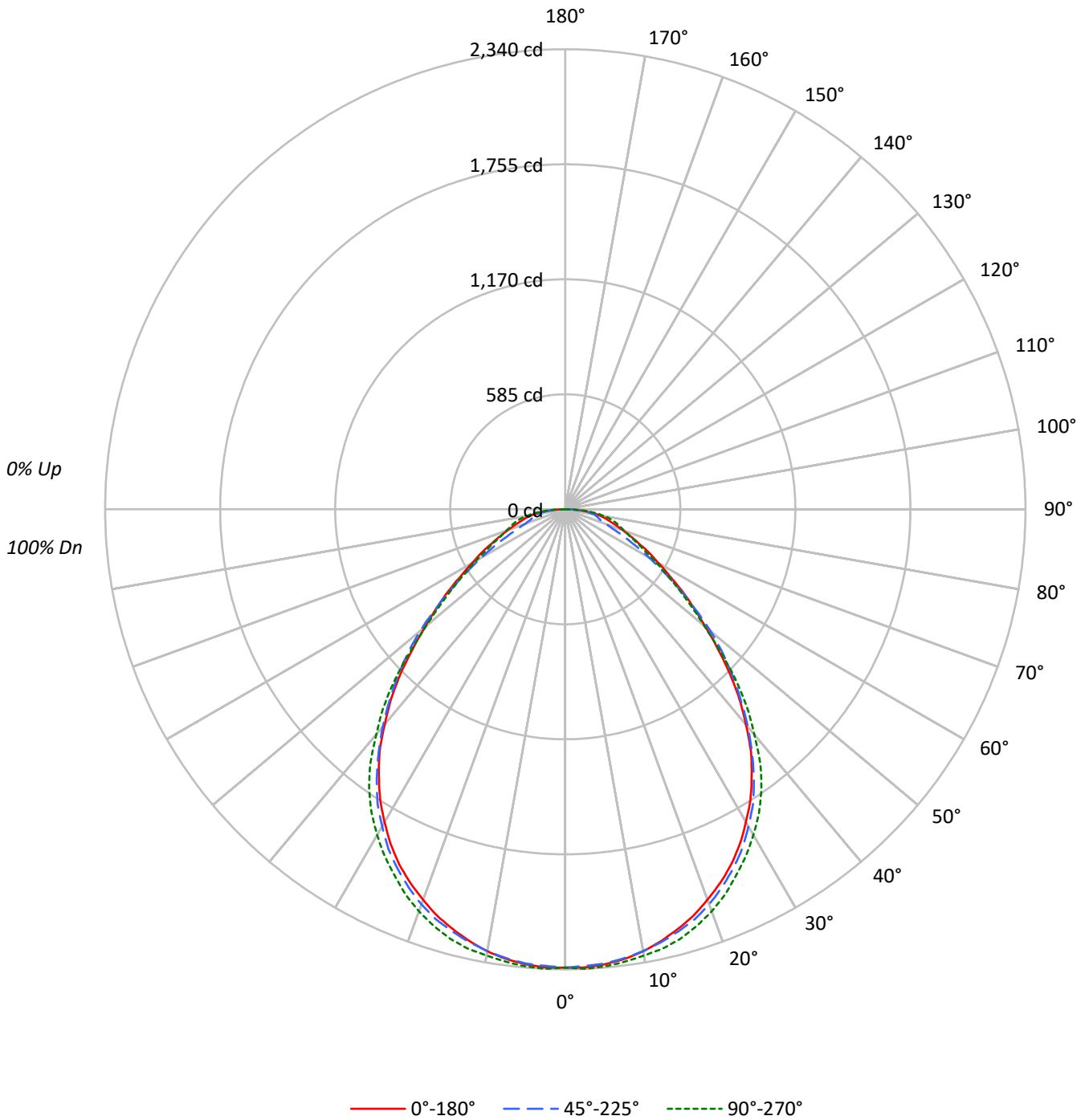
Lumens per Lamp: N/A
Luminaire Lumens: 5091.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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				
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	76	76	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	51	51	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	46	46	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	41	41	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	37	37	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	34	34	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6274	6274	6274
5°	6275	6266	6304
10°	6238	6235	6296
15°	6159	6191	6300
20°	6052	6124	6233
25°	5923	5991	6100
30°	5710	5787	5945
35°	5429	5491	5713
40°	5019	5073	5252
45°	4509	4590	4662
50°	3898	4037	3858
55°	3402	3313	3269
60°	2946	2652	2831
65°	2633	2083	2543
70°	2443	1725	2508
75°	2438	1823	2783
80°	2701	2294	3140
85°	2819	2489	3545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4662 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	4.3
10°-20°	628.4	12.3
20°-30°	929.4	18.3
30°-40°	1048.8	20.6
40°-50°	924.5	18.2
50°-60°	634.2	12.5
60°-70°	374.2	7.4
70°-80°	233.5	4.6
80°-90°	97.4	1.9
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°	1778.4	34.9
0°-40°	2827.1	55.5
0°-60°	4385.8	86.1
0°-90°	5091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2331	2331	2331	2331	2331	
5°	2323	2318	2320	2328	2334	220
15°	2211	2213	2222	2250	2262	623
25°	1995	2002	2018	2044	2054	916
35°	1653	1667	1672	1712	1739	1030
45°	1185	1191	1206	1213	1225	910
55°	725	707	706	682	697	650
65°	414	364	327	378	399	417
75°	234	211	175	245	268	252
85°	91	85	81	106	115	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2331.4	2331.4	2331.4	2331.4	2331.4
2.5°	2332.7	2326.8	2324.4	2333.8	2339.7
5°	2323.1	2318.5	2319.6	2327.9	2333.8
7.5°	2306.8	2303.0	2303.0	2315.1	2320.9
10°	2282.9	2281.9	2281.9	2296.0	2304.3
12.5°	2249.7	2251.1	2255.6	2274.6	2288.8
15°	2210.7	2213.1	2222.4	2249.7	2261.5
17.5°	2168.1	2168.1	2186.8	2208.3	2222.4
20°	2113.5	2117.0	2138.4	2162.2	2176.4
22.5°	2057.8	2063.7	2081.6	2108.7	2121.8
25°	1994.9	2002.2	2017.7	2043.6	2054.3
27.5°	1921.6	1931.0	1947.5	1966.6	1989.0
30°	1837.5	1851.7	1862.4	1888.4	1913.3
32.5°	1752.1	1765.3	1777.0	1804.3	1832.7
35°	1652.6	1666.8	1671.6	1712.0	1739.0
37.5°	1550.9	1556.8	1559.2	1599.3	1629.0
40°	1428.8	1440.6	1444.1	1476.2	1495.2
42.5°	1311.6	1316.1	1323.3	1346.9	1369.7
45°	1184.7	1190.6	1206.1	1213.1	1225.1
47.5°	1051.9	1069.9	1087.5	1065.0	1066.1
50°	931.2	945.4	964.4	921.6	921.6
52.5°	823.3	830.6	831.6	796.0	803.3
55°	725.1	707.2	706.1	682.3	696.7
57.5°	626.6	603.1	594.8	587.5	604.1
60°	547.4	504.6	492.8	503.5	526.0
62.5°	482.1	427.7	405.2	432.6	452.6
65°	413.5	363.8	327.1	377.9	399.4
67.5°	360.3	312.6	265.3	337.5	353.1
70°	310.5	273.6	219.2	306.7	318.8
72.5°	270.1	241.7	189.5	277.3	291.5
75°	234.5	210.9	175.3	245.2	267.7
77.5°	206.1	180.1	163.5	212.0	239.3
80°	174.3	148.0	148.0	177.7	202.6
82.5°	137.3	116.2	119.6	144.5	162.2
85°	91.3	85.4	80.6	105.5	114.8
87.5°	46.3	47.4	42.6	54.6	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)