

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: P798238

Luminaire Tested: 24GRSCT3-A-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-322-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-A-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

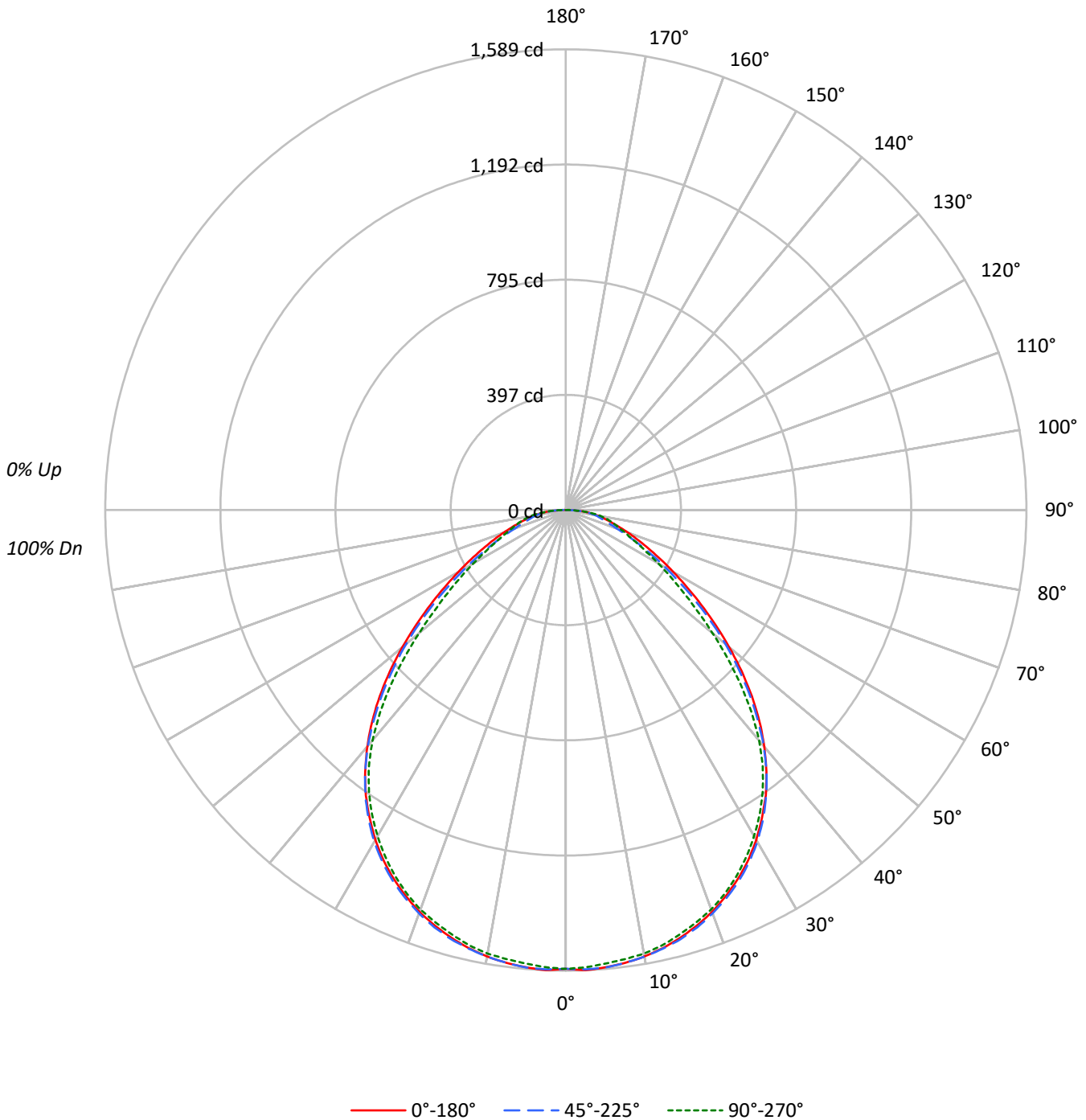
Lumens per Lamp: N/A
Luminaire Lumens: 3656.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	66	66	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	57	57	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	45	45	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	40	40	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2129	2129	2129
5°	2138	2139	2121
10°	2136	2137	2122
15°	2127	2134	2112
20°	2112	2120	2100
25°	2085	2096	2068
30°	2041	2053	2018
35°	1975	1980	1945
40°	1871	1865	1822
45°	1727	1701	1624
50°	1540	1505	1382
55°	1336	1280	1160
60°	1154	1068	991
65°	1002	883	862
70°	897	741	818
75°	837	709	860
80°	883	810	966
85°	949	915	1019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	4.1
10°-20°	430.6	11.8
20°-30°	646.4	17.7
30°-40°	746.1	20.4
40°-50°	679.7	18.6
50°-60°	482.9	13.2
60°-70°	288.7	7.9
70°-80°	165.6	4.5
80°-90°	65.8	1.8
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°	1227.1	33.6
0°-40°	1973.3	54.0
0°-60°	3135.8	85.8
0°-90°	3656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1583	1591	1584	1568	1570	150
15°	1527	1537	1532	1514	1516	431
25°	1404	1416	1412	1395	1393	646
35°	1202	1209	1205	1185	1184	749
45°	908	905	894	858	854	697
55°	570	568	546	499	495	513
65°	315	299	277	275	271	316
75°	161	156	136	164	166	174
85°	62	60	59	69	66	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582.6	1582.6	1582.6	1582.6	1582.6
2.5°	1588.7	1593.2	1585.9	1570.3	1578.7
5°	1583.1	1591.0	1583.7	1567.5	1570.3
7.5°	1575.3	1583.1	1575.3	1559.1	1562.4
10°	1563.6	1572.0	1564.1	1550.1	1553.5
12.5°	1547.4	1556.3	1549.6	1535.6	1537.9
15°	1527.2	1537.3	1532.3	1513.8	1516.0
17.5°	1502.6	1514.4	1508.8	1490.3	1492.0
20°	1475.2	1485.9	1480.8	1464.6	1466.3
22.5°	1441.7	1453.4	1448.4	1433.9	1432.8
25°	1404.2	1416.0	1412.1	1394.7	1393.1
27.5°	1362.3	1372.4	1369.6	1350.6	1348.9
30°	1313.7	1323.7	1321.5	1301.9	1298.6
32.5°	1259.5	1269.0	1266.2	1247.7	1244.9
35°	1202.4	1208.6	1205.2	1184.6	1184.0
37.5°	1137.0	1140.4	1137.6	1115.8	1115.8
40°	1065.5	1067.7	1062.1	1038.7	1037.5
42.5°	988.9	989.5	979.4	952.6	948.6
45°	907.8	905.0	893.9	858.1	853.6
47.5°	822.3	815.6	806.1	763.6	756.3
50°	735.7	729.0	718.9	668.0	660.2
52.5°	650.1	645.1	630.6	578.0	571.9
55°	569.6	568.0	545.6	499.2	494.7
57.5°	495.3	490.8	467.3	430.4	427.6
60°	428.8	418.7	396.9	371.2	368.4
62.5°	368.4	354.4	333.7	319.2	314.2
65°	314.7	299.1	277.3	275.0	270.6
67.5°	268.3	252.1	228.6	239.3	235.3
70°	228.1	213.5	188.4	211.9	208.0
72.5°	191.7	182.2	158.8	186.7	185.0
75°	161.0	156.0	136.4	163.8	165.5
77.5°	135.3	131.9	120.2	140.3	146.5
80°	114.0	107.9	104.5	119.1	124.7
82.5°	89.4	84.4	84.4	95.0	98.4
85°	61.5	59.8	59.3	68.8	66.0
87.5°	33.0	33.0	31.9	35.2	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)