

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: P798237

Luminaire Tested: 24GRSCT3-A-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798237
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-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

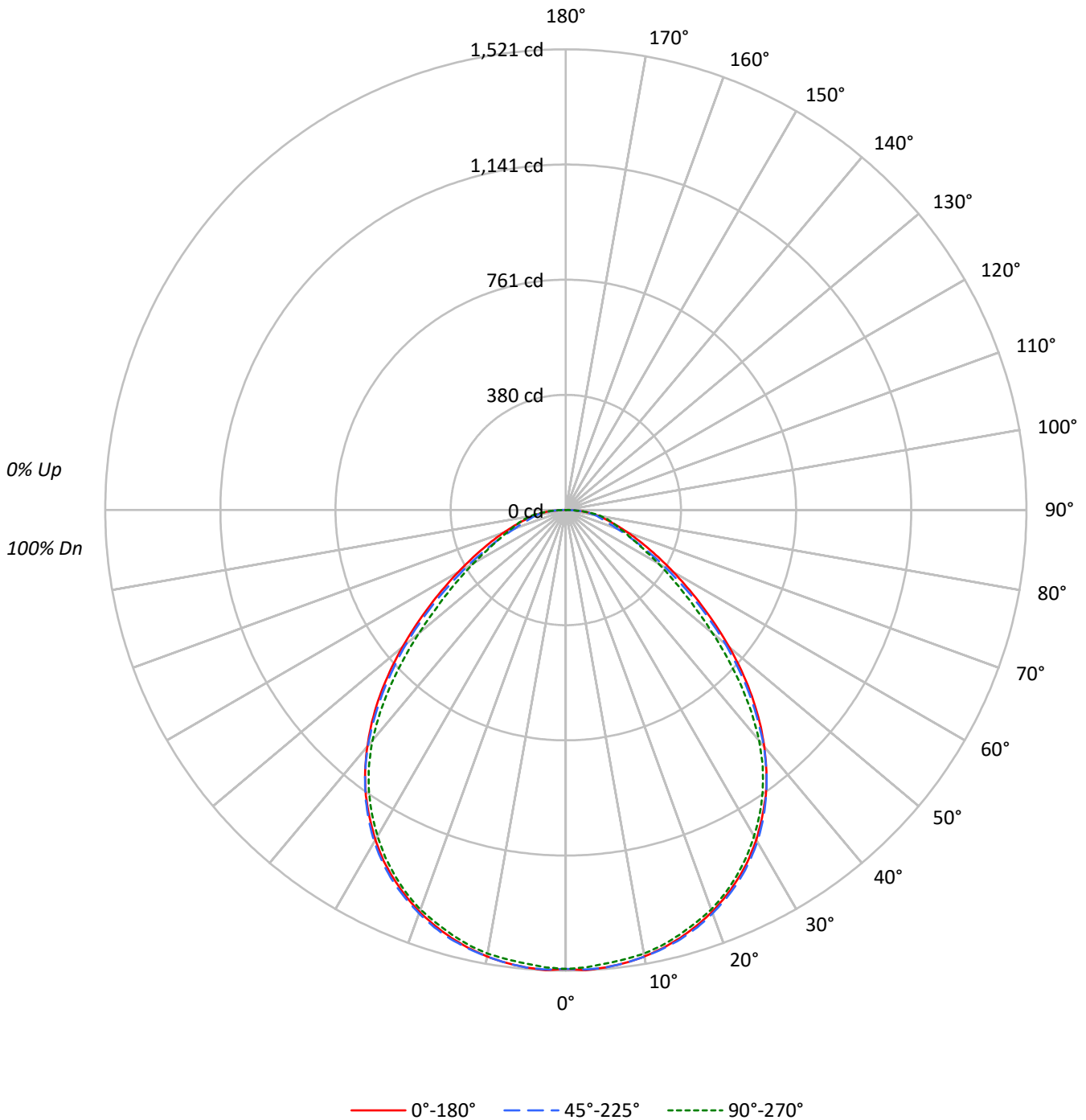
Lumens per Lamp: N/A
Luminaire Lumens: 3500.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.3
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				
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°	2038	2038	2038
5°	2047	2048	2030
10°	2045	2046	2032
15°	2037	2043	2022
20°	2022	2030	2010
25°	1996	2007	1980
30°	1954	1966	1931
35°	1891	1895	1862
40°	1792	1786	1745
45°	1654	1628	1555
50°	1474	1441	1323
55°	1279	1225	1111
60°	1105	1023	949
65°	959	845	825
70°	859	709	783
75°	801	679	823
80°	846	776	924
85°	909	875	974

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	4.1
10°-20°	412.2	11.8
20°-30°	618.8	17.7
30°-40°	714.3	20.4
40°-50°	650.7	18.6
50°-60°	462.3	13.2
60°-70°	276.4	7.9
70°-80°	158.5	4.5
80°-90°	63.0	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°	1174.8	33.6
0°-40°	1889.0	54.0
0°-60°	3002.0	85.8
0°-90°	3500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1516	1523	1516	1501	1503	144
15°	1462	1472	1467	1449	1451	412
25°	1344	1356	1352	1335	1334	619
35°	1151	1157	1154	1134	1134	717
45°	869	866	856	822	817	668
55°	545	544	522	478	474	491
65°	301	286	265	263	259	303
75°	154	149	131	157	158	166
85°	59	57	57	66	63	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.0	1515.0	1515.0	1515.0	1515.0
2.5°	1520.9	1525.2	1518.3	1503.3	1511.3
5°	1515.6	1523.1	1516.1	1500.6	1503.3
7.5°	1508.1	1515.6	1508.1	1492.6	1495.8
10°	1496.8	1504.9	1497.4	1484.0	1487.2
12.5°	1481.3	1489.9	1483.5	1470.1	1472.2
15°	1462.1	1471.7	1466.9	1449.2	1451.4
17.5°	1438.5	1449.8	1444.4	1426.7	1428.3
20°	1412.3	1422.5	1417.6	1402.1	1403.7
22.5°	1380.2	1391.4	1386.6	1372.7	1371.6
25°	1344.3	1355.6	1351.8	1335.2	1333.6
27.5°	1304.2	1313.8	1311.1	1293.0	1291.3
30°	1257.6	1267.3	1265.1	1246.4	1243.2
32.5°	1205.7	1214.8	1212.1	1194.5	1191.8
35°	1151.1	1157.0	1153.8	1134.0	1133.5
37.5°	1088.5	1091.7	1089.1	1068.2	1068.2
40°	1020.0	1022.2	1016.8	994.3	993.3
42.5°	946.7	947.2	937.6	911.9	908.2
45°	869.1	866.4	855.7	821.5	817.2
47.5°	787.2	780.8	771.7	731.0	724.1
50°	704.3	697.9	688.2	639.5	632.0
52.5°	622.4	617.6	603.7	553.4	547.5
55°	545.3	543.7	522.3	477.9	473.6
57.5°	474.2	469.9	447.4	412.1	409.4
60°	410.5	400.8	380.0	355.3	352.7
62.5°	352.7	339.3	319.5	305.6	300.8
65°	301.3	286.3	265.4	263.3	259.0
67.5°	256.9	241.4	218.9	229.0	225.3
70°	218.3	204.4	180.3	202.8	199.1
72.5°	183.6	174.5	152.0	178.7	177.1
75°	154.1	149.3	130.6	156.8	158.4
77.5°	129.5	126.3	115.1	134.3	140.2
80°	109.2	103.3	100.1	114.0	119.3
82.5°	85.6	80.8	80.8	91.0	94.2
85°	58.9	57.3	56.7	65.8	63.1
87.5°	31.6	31.6	30.5	33.7	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)