

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: P798185

Luminaire Tested: 22GRSCT3-A-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798185
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-LOW-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

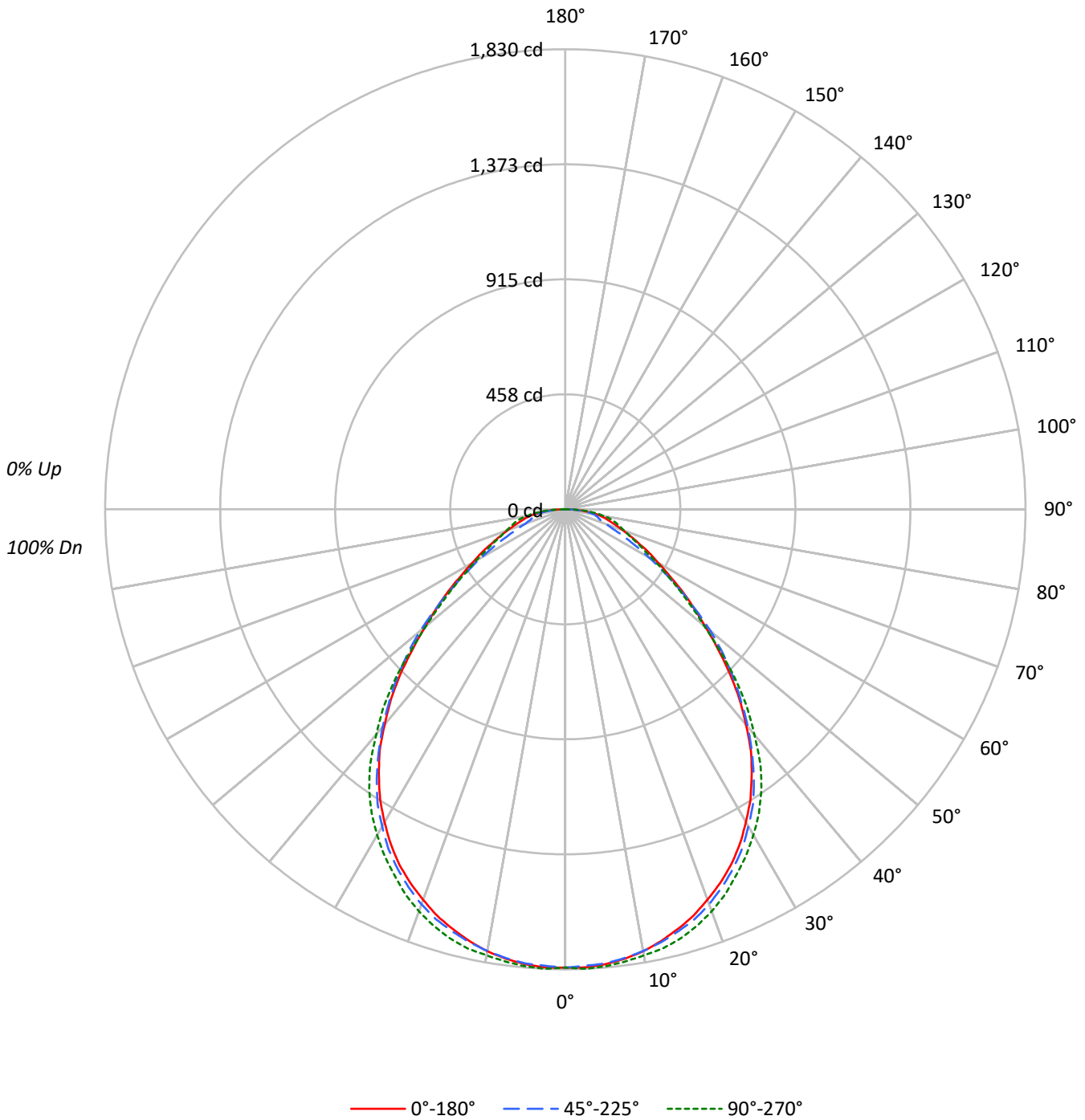
Lumens per Lamp: N/A
Luminaire Lumens: 3981.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	86	
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	76	74	
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	66	64	
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	56	
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	51	49	
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	46	44	
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	41	39	
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	37	36	
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	34	32	
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	31	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4906	4906	4906
5°	4907	4900	4930
10°	4878	4876	4924
15°	4816	4842	4927
20°	4733	4789	4874
25°	4632	4685	4770
30°	4465	4525	4649
35°	4245	4294	4467
40°	3925	3967	4107
45°	3526	3589	3646
50°	3049	3157	3017
55°	2660	2591	2556
60°	2303	2074	2214
65°	2059	1629	1989
70°	1910	1349	1961
75°	1907	1425	2176
80°	2112	1793	2455
85°	2205	1945	2773

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3646 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	4.3
10°-20°	491.4	12.3
20°-30°	726.7	18.3
30°-40°	820.1	20.6
40°-50°	722.9	18.2
50°-60°	495.9	12.5
60°-70°	292.6	7.4
70°-80°	182.6	4.6
80°-90°	76.1	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°	1390.6	34.9
0°-40°	2210.7	55.5
0°-60°	3429.6	86.1
0°-90°	3981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1823	1823	1823	1823	1823	
5°	1817	1813	1814	1820	1825	172
15°	1729	1731	1738	1759	1768	487
25°	1560	1566	1578	1598	1606	716
35°	1292	1303	1307	1339	1360	805
45°	926	931	943	949	958	712
55°	567	553	552	534	545	509
65°	323	284	256	296	312	326
75°	183	165	137	192	209	197
85°	71	67	63	82	90	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1823.1	1823.1	1823.1	1823.1	1823.1
2.5°	1824.1	1819.5	1817.6	1824.9	1829.6
5°	1816.6	1813.0	1813.9	1820.3	1824.9
7.5°	1803.8	1800.9	1800.9	1810.3	1814.9
10°	1785.2	1784.3	1784.3	1795.4	1801.9
12.5°	1759.2	1760.3	1763.8	1778.7	1789.8
15°	1728.7	1730.6	1737.9	1759.2	1768.4
17.5°	1695.4	1695.4	1710.0	1726.8	1737.9
20°	1652.7	1655.4	1672.2	1690.8	1701.9
22.5°	1609.2	1613.8	1627.8	1648.9	1659.2
25°	1560.0	1565.6	1577.8	1598.1	1606.4
27.5°	1502.6	1509.9	1522.9	1537.8	1555.4
30°	1436.9	1448.0	1456.4	1476.7	1496.1
32.5°	1370.1	1380.4	1389.6	1410.9	1433.1
35°	1292.3	1303.4	1307.1	1338.7	1359.9
37.5°	1212.7	1217.3	1219.2	1250.6	1273.8
40°	1117.3	1126.5	1129.2	1154.3	1169.2
42.5°	1025.6	1029.2	1034.8	1053.2	1071.0
45°	926.4	931.0	943.1	948.6	958.0
47.5°	822.6	836.6	850.4	832.8	833.7
50°	728.2	739.3	754.1	720.6	720.6
52.5°	643.8	649.5	650.3	622.5	628.1
55°	567.0	553.0	552.2	533.5	544.8
57.5°	490.0	471.6	465.1	459.4	472.4
60°	428.0	394.5	385.3	393.7	411.3
62.5°	377.0	334.5	316.9	338.2	353.9
65°	323.4	284.4	255.8	295.5	312.3
67.5°	281.7	244.5	207.4	263.9	276.1
70°	242.8	213.9	171.4	239.9	249.3
72.5°	211.2	189.0	148.2	216.8	227.9
75°	183.4	164.9	137.1	191.7	209.3
77.5°	161.2	140.9	127.9	165.8	187.1
80°	136.3	115.7	115.7	139.0	158.4
82.5°	107.4	90.8	93.6	113.0	126.8
85°	71.4	66.8	63.0	82.5	89.8
87.5°	36.2	37.0	33.3	42.7	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)