

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: P798184

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798184
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

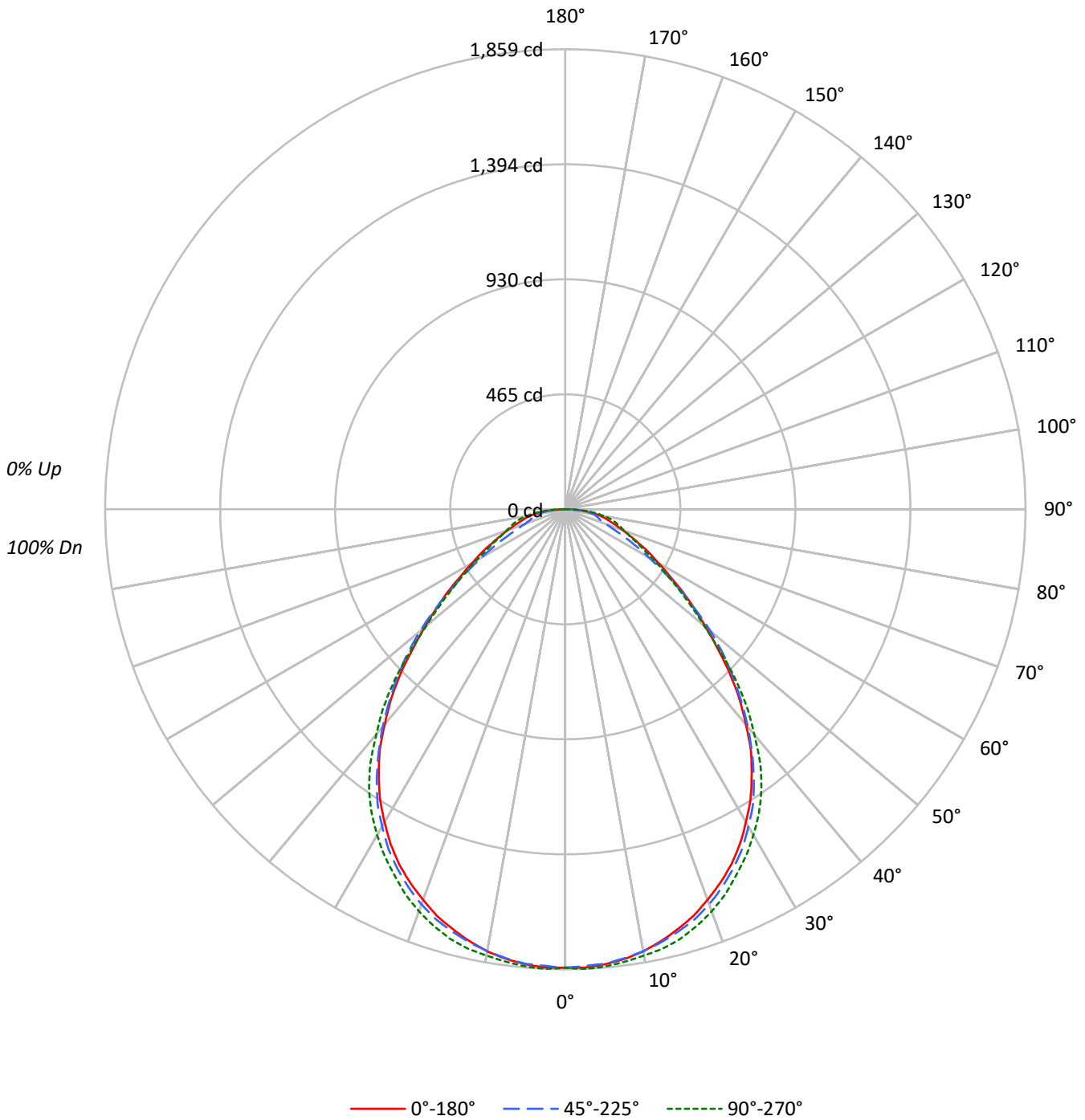
Lumens per Lamp: N/A
Luminaire Lumens: 4045.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.6
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
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°	4985	4985	4985
5°	4986	4978	5009
10°	4956	4954	5003
15°	4893	4919	5006
20°	4809	4865	4952
25°	4706	4760	4847
30°	4537	4598	4724
35°	4313	4363	4539
40°	3988	4031	4173
45°	3582	3647	3704
50°	3098	3208	3065
55°	2703	2632	2597
60°	2341	2107	2249
65°	2092	1655	2020
70°	1941	1371	1993
75°	1937	1448	2211
80°	2145	1822	2495
85°	2238	1976	2816

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3704 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	4.3
10°-20°	499.3	12.3
20°-30°	738.4	18.3
30°-40°	833.3	20.6
40°-50°	734.6	18.2
50°-60°	503.9	12.5
60°-70°	297.4	7.4
70°-80°	185.5	4.6
80°-90°	77.4	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°	1413.0	34.9
0°-40°	2246.3	55.5
0°-60°	3484.7	86.1
0°-90°	4045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1846	1842	1843	1850	1854	175
15°	1756	1758	1766	1788	1797	495
25°	1585	1591	1603	1624	1632	728
35°	1313	1324	1328	1360	1382	818
45°	941	946	958	964	973	723
55°	576	562	561	542	554	517
65°	329	289	260	300	317	331
75°	186	168	139	195	213	200
85°	72	68	64	84	91	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.4	1852.4	1852.4	1852.4	1852.4
2.5°	1853.4	1848.8	1846.8	1854.3	1859.0
5°	1845.8	1842.2	1843.0	1849.6	1854.3
7.5°	1832.8	1829.8	1829.8	1839.4	1844.1
10°	1813.9	1813.0	1813.0	1824.3	1830.9
12.5°	1787.5	1788.6	1792.2	1807.3	1818.6
15°	1756.5	1758.4	1765.8	1787.5	1796.9
17.5°	1722.6	1722.6	1737.5	1754.5	1765.8
20°	1679.3	1682.0	1699.0	1718.0	1729.2
22.5°	1635.0	1639.7	1654.0	1675.4	1685.9
25°	1585.0	1590.8	1603.1	1623.8	1632.3
27.5°	1526.8	1534.2	1547.4	1562.5	1580.4
30°	1460.0	1471.3	1479.8	1500.4	1520.2
32.5°	1392.2	1402.6	1411.9	1433.6	1456.2
35°	1313.0	1324.3	1328.1	1360.3	1381.7
37.5°	1232.2	1236.9	1238.8	1270.7	1294.3
40°	1135.2	1144.6	1147.4	1172.9	1188.0
42.5°	1042.1	1045.7	1051.5	1070.2	1088.2
45°	941.3	946.0	958.3	963.8	973.4
47.5°	835.8	850.1	864.1	846.2	847.1
50°	739.9	751.2	766.3	732.2	732.2
52.5°	654.2	659.9	660.8	632.5	638.2
55°	576.1	561.9	561.0	542.1	553.6
57.5°	497.9	479.2	472.6	466.8	480.0
60°	434.9	400.9	391.5	400.0	417.9
62.5°	383.0	339.9	322.0	343.7	359.6
65°	328.6	289.0	259.9	300.3	317.3
67.5°	286.3	248.4	210.8	268.2	280.5
70°	246.7	217.4	174.2	243.7	253.3
72.5°	214.6	192.0	150.6	220.3	231.6
75°	186.3	167.6	139.3	194.8	212.7
77.5°	163.8	143.1	129.9	168.4	190.1
80°	138.4	117.6	117.6	141.2	161.0
82.5°	109.1	92.3	95.1	114.8	128.9
85°	72.5	67.8	64.0	83.8	91.2
87.5°	36.8	37.6	33.8	43.4	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)