

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: P798130

Luminaire Tested: 14GRSCT3-A-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P290984)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-A-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

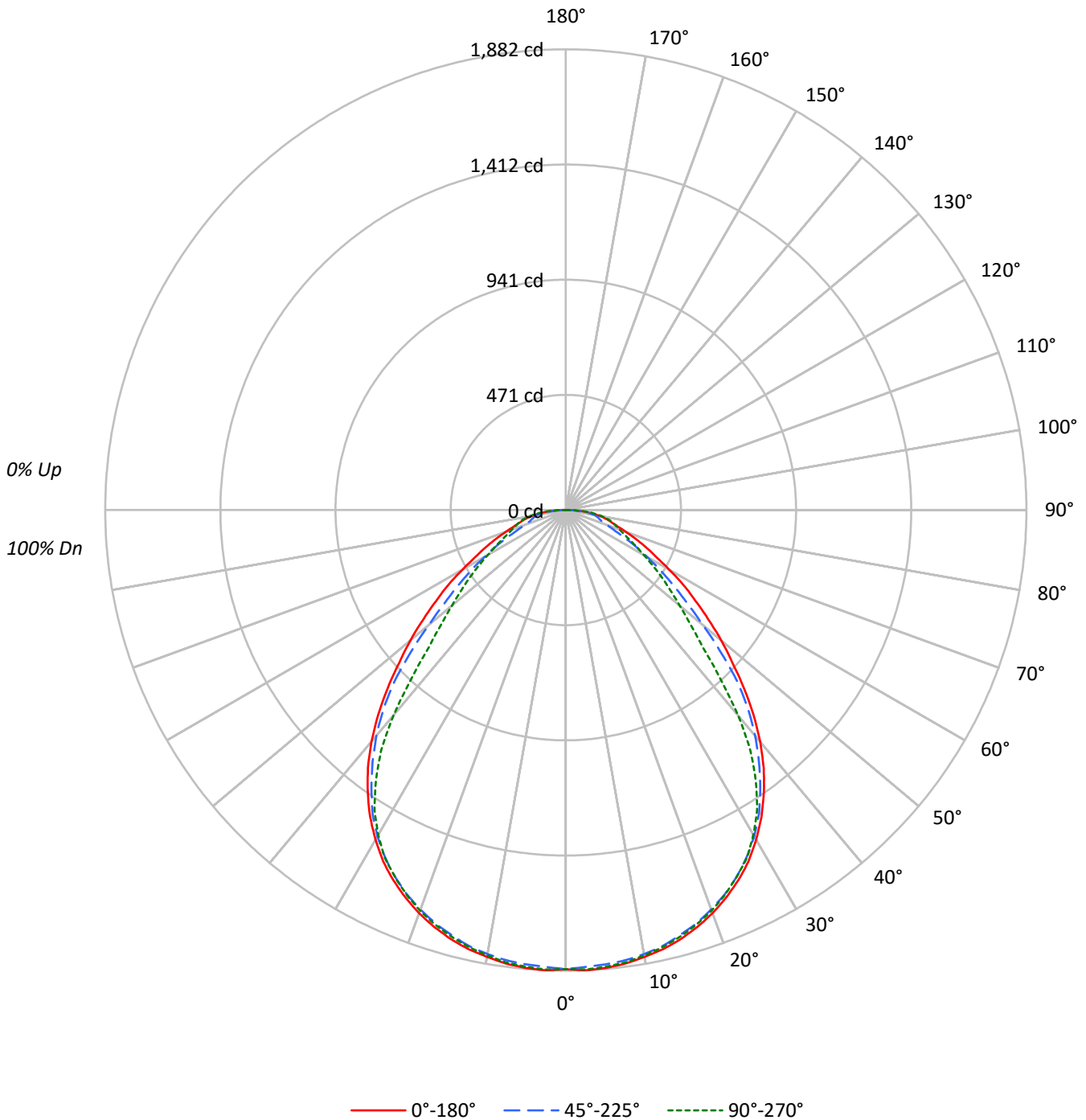
Lumens per Lamp: N/A
Luminaire Lumens: 4093.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	76	76	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	66	66	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	58	58	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	46	46	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	42	42	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	34	34	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5047	5047	5047
5°	5072	5033	5058
10°	5065	5034	5047
15°	5055	5011	5027
20°	5020	4973	4987
25°	4954	4906	4908
30°	4832	4782	4762
35°	4634	4550	4447
40°	4338	4228	3847
45°	3918	3769	3006
50°	3474	3060	2543
55°	3033	2511	2244
60°	2630	2067	1981
65°	2306	1659	1828
70°	2057	1406	1840
75°	2006	1483	2057
80°	2225	1870	2359
85°	2319	1995	2757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	4.3
10°-20°	509.8	12.5
20°-30°	762.6	18.6
30°-40°	860.8	21.0
40°-50°	730.3	17.8
50°-60°	494.1	12.1
60°-70°	294.9	7.2
70°-80°	184.7	4.5
80°-90°	77.7	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°	1450.3	35.4
0°-40°	2311.2	56.5
0°-60°	3535.6	86.4
0°-90°	4093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1878	1872	1863	1876	1873	178
15°	1815	1811	1799	1811	1804	512
25°	1668	1663	1652	1660	1653	767
35°	1411	1401	1385	1373	1354	879
45°	1029	1033	990	849	790	793
55°	646	616	535	479	478	582
65°	362	300	260	278	287	362
75°	193	172	143	188	198	207
85°	75	71	65	84	89	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1875.6	1875.6	1875.6	1875.6	1875.6
2.5°	1882.3	1876.5	1867.9	1879.3	1878.4
5°	1877.6	1871.8	1863.2	1876.5	1872.6
7.5°	1869.0	1864.1	1855.5	1867.9	1864.1
10°	1853.6	1850.0	1842.3	1852.7	1847.0
12.5°	1837.5	1834.8	1825.1	1834.8	1829.0
15°	1814.6	1811.0	1798.6	1811.0	1804.4
17.5°	1786.2	1781.5	1771.0	1781.5	1775.7
20°	1753.0	1747.2	1736.7	1747.2	1741.4
22.5°	1713.0	1708.2	1698.8	1708.2	1700.8
25°	1668.4	1662.7	1652.2	1659.9	1653.0
27.5°	1617.1	1609.3	1599.9	1605.5	1601.9
30°	1555.2	1545.8	1539.1	1539.1	1532.5
32.5°	1487.8	1481.1	1469.6	1462.9	1454.4
35°	1410.7	1401.3	1385.0	1372.6	1353.8
37.5°	1328.1	1316.5	1296.6	1265.3	1239.7
40°	1234.9	1220.6	1203.5	1141.6	1095.2
42.5°	1135.0	1132.2	1102.7	997.1	932.5
45°	1029.4	1033.3	990.5	849.0	789.9
47.5°	923.1	936.3	858.4	719.7	689.3
50°	829.9	834.6	731.0	624.6	607.5
52.5°	733.8	726.3	623.6	549.5	537.1
55°	646.5	616.1	535.2	479.1	478.2
57.5°	569.4	513.3	457.2	415.5	420.2
60°	488.7	425.8	384.0	361.1	368.0
62.5°	417.2	357.5	320.5	313.6	325.2
65°	362.2	300.3	260.5	277.6	287.1
67.5°	310.0	257.5	211.9	252.8	256.7
70°	261.4	223.5	178.7	232.9	233.8
72.5°	221.6	197.8	155.0	211.1	213.9
75°	192.9	172.1	142.6	188.2	197.8
77.5°	169.1	147.3	132.1	162.5	178.7
80°	143.6	118.8	120.7	135.9	152.2
82.5°	110.2	92.3	96.1	112.2	123.5
85°	75.1	71.3	64.6	83.7	89.3
87.5°	40.0	38.1	33.2	47.5	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)