

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: P798133

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798133  
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-MID-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

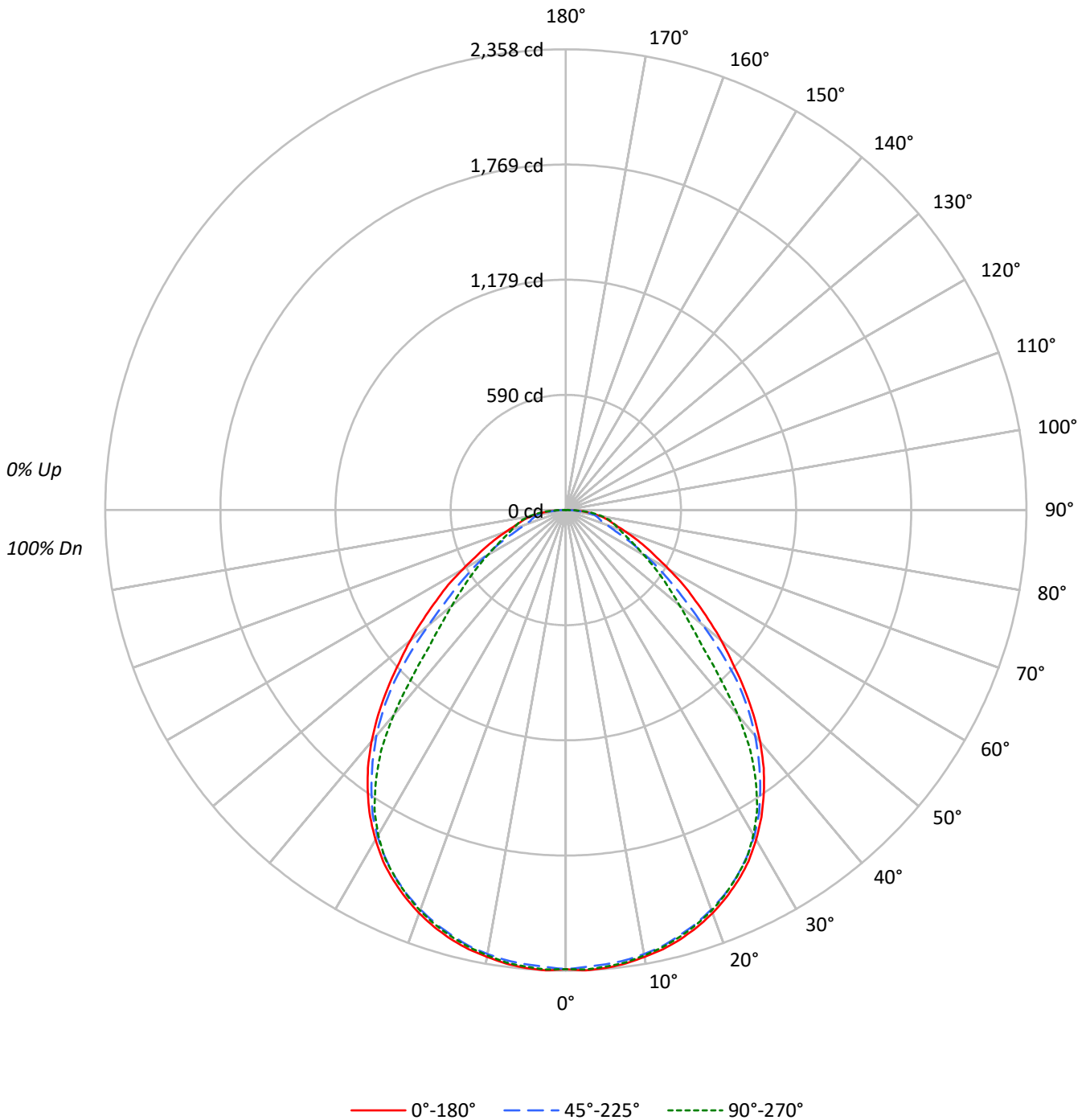
Lumens per Lamp: N/A  
Luminaire Lumens: 5128.3 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.5  
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



TEST NUMBER: P798133  
CATALOG NUMBER: 14GRSCT3-A-UNV-MID-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P798133  
 CATALOG NUMBER: 14GRSCT3-A-UNV-MID-3500K

**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°	6324	6324	6324
5°	6355	6306	6338
10°	6346	6307	6324
15°	6334	6278	6298
20°	6290	6231	6248
25°	6207	6146	6150
30°	6055	5992	5967
35°	5807	5701	5572
40°	5435	5297	4820
45°	4909	4723	3766
50°	4353	3835	3187
55°	3800	3146	2811
60°	3295	2590	2482
65°	2890	2078	2290
70°	2577	1762	2305
75°	2513	1857	2576
80°	2789	2345	2955
85°	2905	2501	3452

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4927 cd/sqm



TEST NUMBER: P798133  
 CATALOG NUMBER: 14GRSCT3-A-UNV-MID-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.0	4.3
10°-20°	638.7	12.5
20°-30°	955.5	18.6
30°-40°	1078.6	21.0
40°-50°	915.0	17.8
50°-60°	619.1	12.1
60°-70°	369.6	7.2
70°-80°	231.4	4.5
80°-90°	97.4	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°	1817.2	35.4
0°-40°	2895.8	56.5
0°-60°	4430.0	86.4
0°-90°	5128.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5128.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2350	2350	2350	2350	2350	
5°	2352	2345	2335	2351	2346	224
15°	2274	2269	2254	2269	2261	641
25°	2090	2083	2070	2080	2071	961
35°	1768	1756	1735	1720	1696	1101
45°	1290	1295	1241	1064	990	994
55°	810	772	670	600	599	730
65°	454	376	326	348	360	454
75°	242	216	179	236	248	260
85°	94	89	81	105	112	101
90°	0	0	0	0	0	



TEST NUMBER: P798133

CATALOG NUMBER: 14GRSCT3-A-UNV-MID-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2350.1	2350.1	2350.1	2350.1	2350.1
2.5°	2358.4	2351.2	2340.5	2354.7	2353.6
5°	2352.5	2345.3	2334.6	2351.2	2346.4
7.5°	2341.8	2335.6	2324.9	2340.5	2335.6
10°	2322.5	2317.9	2308.3	2321.4	2314.2
12.5°	2302.4	2298.9	2286.8	2298.9	2291.6
15°	2273.7	2269.1	2253.6	2269.1	2260.8
17.5°	2238.0	2232.1	2219.0	2232.1	2224.9
20°	2196.4	2189.2	2176.0	2189.2	2181.9
22.5°	2146.3	2140.4	2128.6	2140.4	2131.0
25°	2090.5	2083.2	2070.1	2079.8	2071.2
27.5°	2026.1	2016.5	2004.7	2011.6	2007.1
30°	1948.6	1936.8	1928.5	1928.5	1920.2
32.5°	1864.1	1855.8	1841.3	1833.0	1822.3
35°	1767.6	1755.7	1735.4	1719.8	1696.2
37.5°	1664.0	1649.5	1624.6	1585.4	1553.2
40°	1547.3	1529.4	1507.9	1430.4	1372.2
42.5°	1422.1	1418.6	1381.6	1249.4	1168.4
45°	1289.9	1294.7	1241.0	1063.7	989.7
47.5°	1156.6	1173.2	1075.6	901.7	863.7
50°	1039.9	1045.8	916.0	782.7	761.2
52.5°	919.4	910.1	781.3	688.5	673.0
55°	810.0	771.9	670.5	600.3	599.2
57.5°	713.5	643.2	572.9	520.6	526.5
60°	612.3	533.5	481.2	452.5	461.1
62.5°	522.8	447.9	401.5	392.9	407.4
65°	453.8	376.3	326.4	347.9	359.7
67.5°	388.4	322.7	265.5	316.8	321.6
70°	327.5	280.0	224.0	291.8	292.9
72.5°	277.6	247.8	194.2	264.5	267.9
75°	241.7	215.6	178.6	235.8	247.8
77.5°	211.9	184.5	165.5	203.6	224.0
80°	180.0	148.9	151.3	170.3	190.7
82.5°	138.1	115.6	120.4	140.5	154.8
85°	94.1	89.3	81.0	104.9	111.8
87.5°	50.2	47.7	41.6	59.5	56.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)