

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: P798127

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798127  
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-HIGH-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

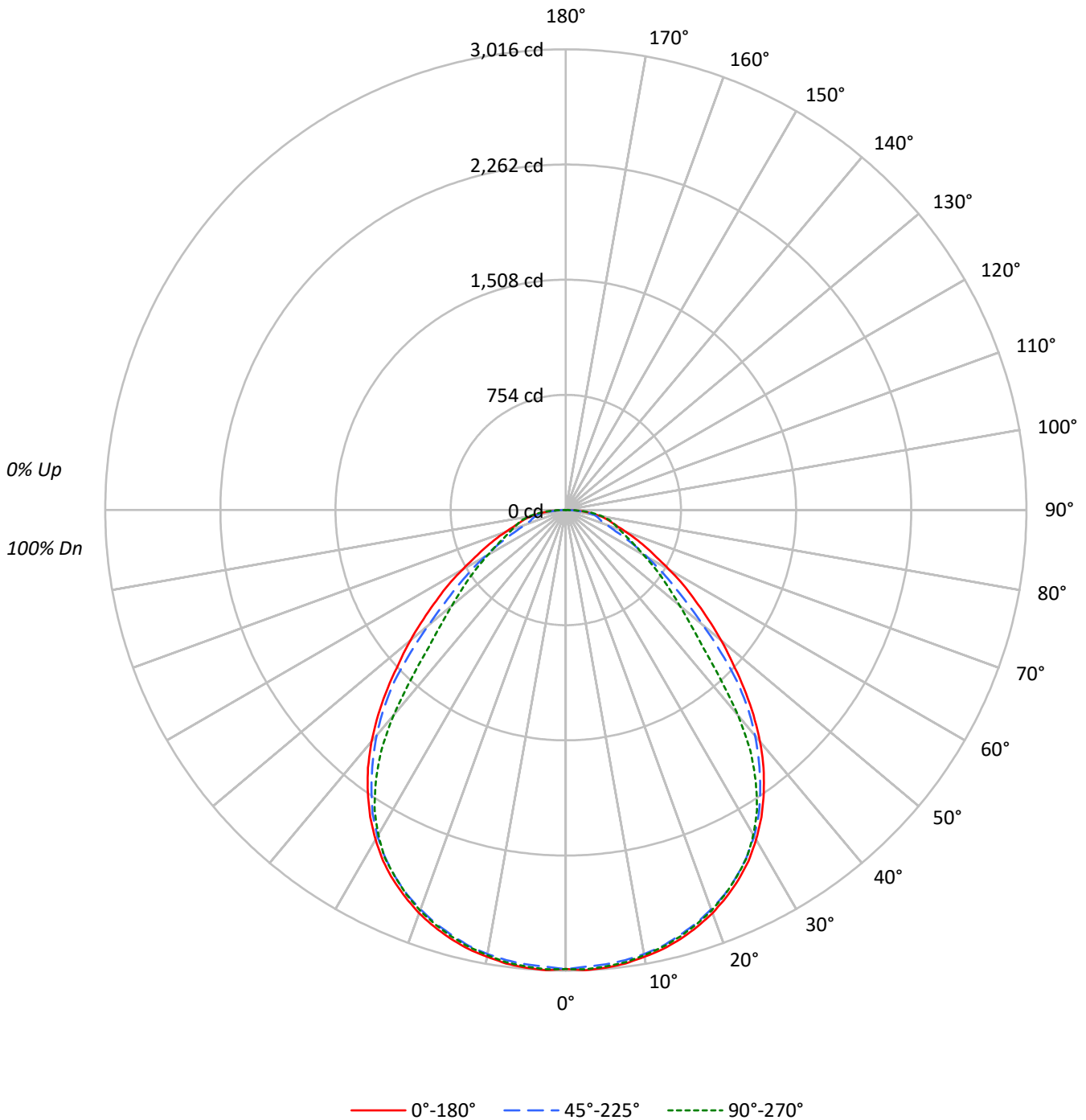
Lumens per Lamp: N/A  
Luminaire Lumens: 6557.0 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8086	8086	8086
5°	8125	8063	8104
10°	8114	8064	8085
15°	8099	8027	8053
20°	8042	7968	7989
25°	7936	7859	7863
30°	7742	7662	7629
35°	7424	7289	7124
40°	6950	6773	6163
45°	6276	6039	4816
50°	5566	4903	4075
55°	4859	4022	3594
60°	4214	3311	3173
65°	3695	2658	2928
70°	3294	2253	2947
75°	3213	2375	3295
80°	3566	2997	3778
85°	3717	3199	4415

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.1	4.3
10°-20°	816.7	12.5
20°-30°	1221.7	18.6
30°-40°	1379.1	21.0
40°-50°	1169.9	17.8
50°-60°	791.6	12.1
60°-70°	472.5	7.2
70°-80°	295.9	4.5
80°-90°	124.5	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°	2323.5	35.4
0°-40°	3702.5	56.5
0°-60°	5664.1	86.4
0°-90°	6557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3005	3005	3005	3005	3005	
5°	3008	2999	2985	3006	3000	286
15°	2907	2901	2881	2901	2891	820
25°	2673	2664	2647	2659	2648	1229
35°	2260	2245	2219	2199	2169	1408
45°	1649	1655	1587	1360	1265	1271
55°	1036	987	857	768	766	933
65°	580	481	417	445	460	580
75°	309	276	228	301	317	332
85°	120	114	104	134	143	130
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3004.8	3004.8	3004.8	3004.8	3004.8
2.5°	3015.5	3006.2	2992.5	3010.7	3009.3
5°	3007.9	2998.7	2984.9	3006.2	3000.0
7.5°	2994.2	2986.3	2972.6	2992.5	2986.3
10°	2969.5	2963.7	2951.3	2968.1	2958.9
12.5°	2943.8	2939.3	2923.9	2939.3	2930.1
15°	2907.1	2901.3	2881.4	2901.3	2890.6
17.5°	2861.5	2853.9	2837.1	2853.9	2844.7
20°	2808.3	2799.1	2782.3	2799.1	2789.8
22.5°	2744.2	2736.7	2721.6	2736.7	2724.7
25°	2672.9	2663.6	2646.8	2659.1	2648.2
27.5°	2590.6	2578.2	2563.1	2572.0	2566.2
30°	2491.5	2476.4	2465.7	2465.7	2455.1
32.5°	2383.4	2372.8	2354.3	2343.6	2329.9
35°	2260.0	2244.9	2218.8	2198.9	2168.7
37.5°	2127.6	2109.1	2077.2	2027.1	1986.0
40°	1978.4	1955.4	1928.0	1828.9	1754.5
42.5°	1818.3	1813.8	1766.5	1597.4	1493.8
45°	1649.2	1655.4	1586.8	1360.1	1265.4
47.5°	1478.8	1500.0	1375.2	1153.0	1104.3
50°	1329.6	1337.1	1171.1	1000.7	973.3
52.5°	1175.6	1163.6	999.0	880.3	860.4
55°	1035.7	987.0	857.3	767.5	766.1
57.5°	912.2	822.4	732.5	665.6	673.2
60°	782.9	682.1	615.2	578.5	589.5
62.5°	668.4	572.7	513.4	502.4	520.9
65°	580.3	481.1	417.4	444.8	459.9
67.5°	496.6	412.6	339.5	405.0	411.2
70°	418.7	358.0	286.4	373.1	374.5
72.5°	354.9	316.9	248.3	338.1	342.6
75°	309.0	275.7	228.4	301.4	316.9
77.5°	270.9	235.9	211.6	260.3	286.4
80°	230.1	190.3	193.4	217.8	243.8
82.5°	176.6	147.8	154.0	179.7	197.9
85°	120.4	114.2	103.6	134.1	143.0
87.5°	64.1	61.0	53.2	76.1	71.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)