

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: P798128

Luminaire Tested: 14GRSCT3-A-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798128
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

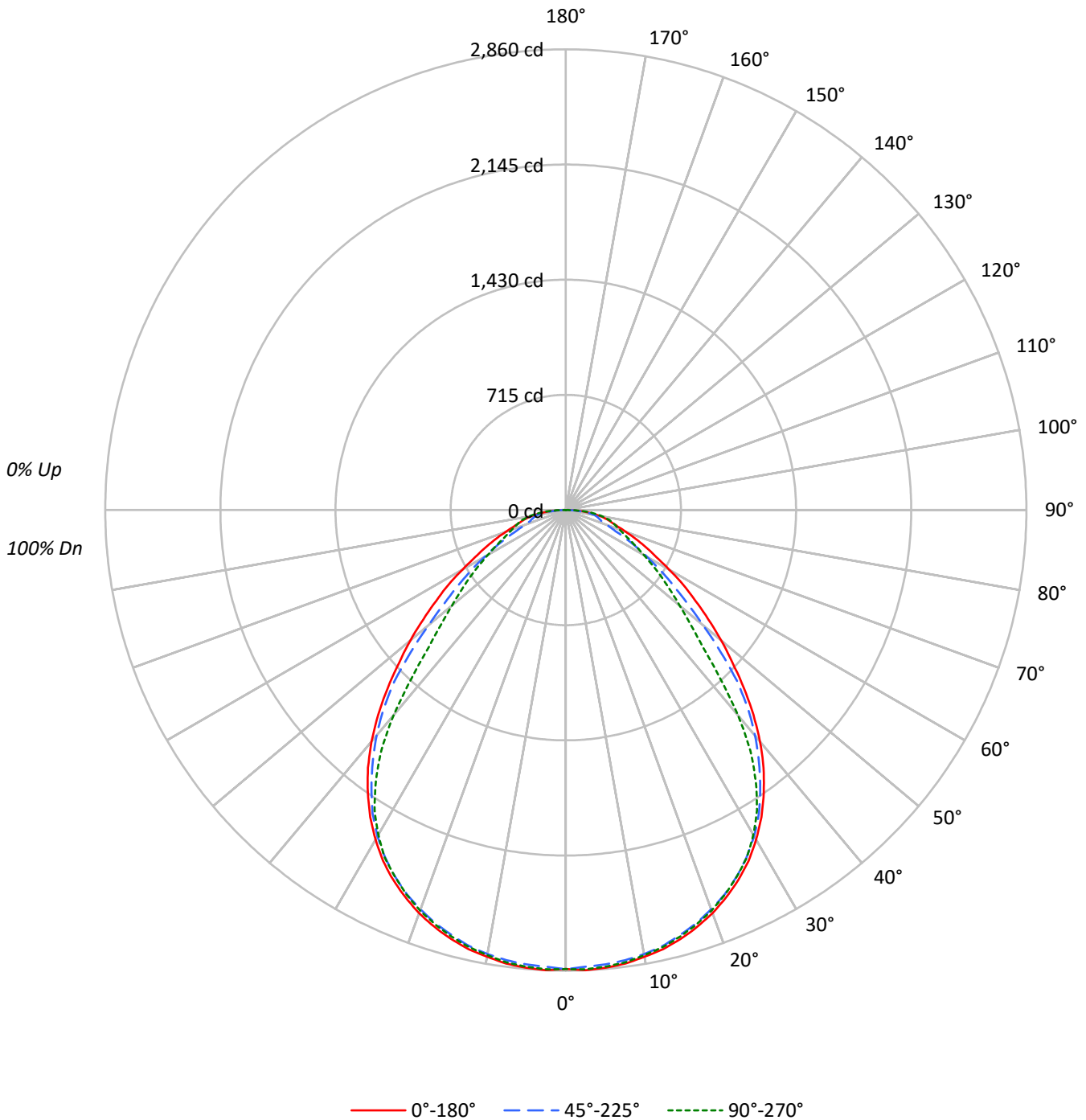
Lumens per Lamp: N/A
Luminaire Lumens: 6218.3 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.9
Input Voltage (V): 120
Input Current (A_{in}): 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°	7668	7668	7668
5°	7705	7646	7685
10°	7695	7648	7667
15°	7680	7612	7637
20°	7627	7556	7576
25°	7526	7453	7457
30°	7342	7266	7235
35°	7041	6912	6756
40°	6591	6423	5845
45°	5952	5727	4567
50°	5279	4649	3864
55°	4608	3815	3408
60°	3996	3140	3009
65°	3504	2520	2777
70°	3124	2137	2794
75°	3046	2252	3124
80°	3381	2842	3583
85°	3526	3032	4187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5974 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	4.3
10°-20°	774.5	12.5
20°-30°	1158.6	18.6
30°-40°	1307.8	21.0
40°-50°	1109.5	17.8
50°-60°	750.7	12.1
60°-70°	448.1	7.2
70°-80°	280.6	4.5
80°-90°	118.1	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°	2203.4	35.4
0°-40°	3511.3	56.5
0°-60°	5371.5	86.4
0°-90°	6218.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2850	2850	2850	2850	2850	
5°	2852	2844	2831	2851	2845	271
15°	2757	2751	2732	2751	2741	777
25°	2535	2526	2510	2522	2511	1166
35°	2143	2129	2104	2085	2057	1335
45°	1564	1570	1505	1290	1200	1205
55°	982	936	813	728	726	885
65°	550	456	396	422	436	550
75°	293	262	217	286	300	315
85°	114	108	98	127	136	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2849.6	2849.6	2849.6	2849.6	2849.6
2.5°	2859.7	2850.9	2837.9	2855.1	2853.8
5°	2852.5	2843.8	2830.7	2850.9	2845.1
7.5°	2839.5	2832.0	2819.0	2837.9	2832.0
10°	2816.1	2810.6	2798.9	2814.8	2806.0
12.5°	2791.7	2787.5	2772.9	2787.5	2778.7
15°	2756.9	2751.4	2732.5	2751.4	2741.3
17.5°	2713.7	2706.5	2690.6	2706.5	2697.7
20°	2663.3	2654.5	2638.5	2654.5	2645.7
22.5°	2602.4	2595.3	2581.0	2595.3	2583.9
25°	2534.8	2526.0	2510.1	2521.8	2511.4
27.5°	2456.7	2445.0	2430.7	2439.2	2433.6
30°	2362.8	2348.4	2338.4	2338.4	2328.3
32.5°	2260.3	2250.2	2232.7	2222.6	2209.6
35°	2143.2	2128.9	2104.2	2085.3	2056.7
37.5°	2017.7	2000.1	1969.9	1922.4	1883.4
40°	1876.2	1854.4	1828.4	1734.4	1663.8
42.5°	1724.3	1720.1	1675.2	1514.9	1416.7
45°	1564.0	1569.9	1504.8	1289.8	1200.1
47.5°	1402.4	1422.5	1304.1	1093.4	1047.2
50°	1260.9	1268.0	1110.6	949.0	923.0
52.5°	1114.9	1103.5	947.4	834.8	816.0
55°	982.2	936.0	813.1	727.9	726.5
57.5°	865.1	779.9	694.7	631.3	638.4
60°	742.5	646.9	583.5	548.7	559.1
62.5°	633.9	543.1	486.9	476.5	494.0
65°	550.3	456.3	395.8	421.8	436.1
67.5°	470.9	391.2	322.0	384.1	389.9
70°	397.1	339.5	271.6	353.8	355.1
72.5°	336.6	300.5	235.5	320.7	324.9
75°	293.0	261.5	216.6	285.9	300.5
77.5°	256.9	223.8	200.7	246.8	271.6
80°	218.2	180.5	183.4	206.5	231.2
82.5°	167.5	140.2	146.0	170.4	187.7
85°	114.2	108.3	98.2	127.2	135.6
87.5°	60.8	57.9	50.4	72.2	68.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)