

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: P798155

Luminaire Tested: 14GRSCT3-F1-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-F1-UNV-HIGH-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

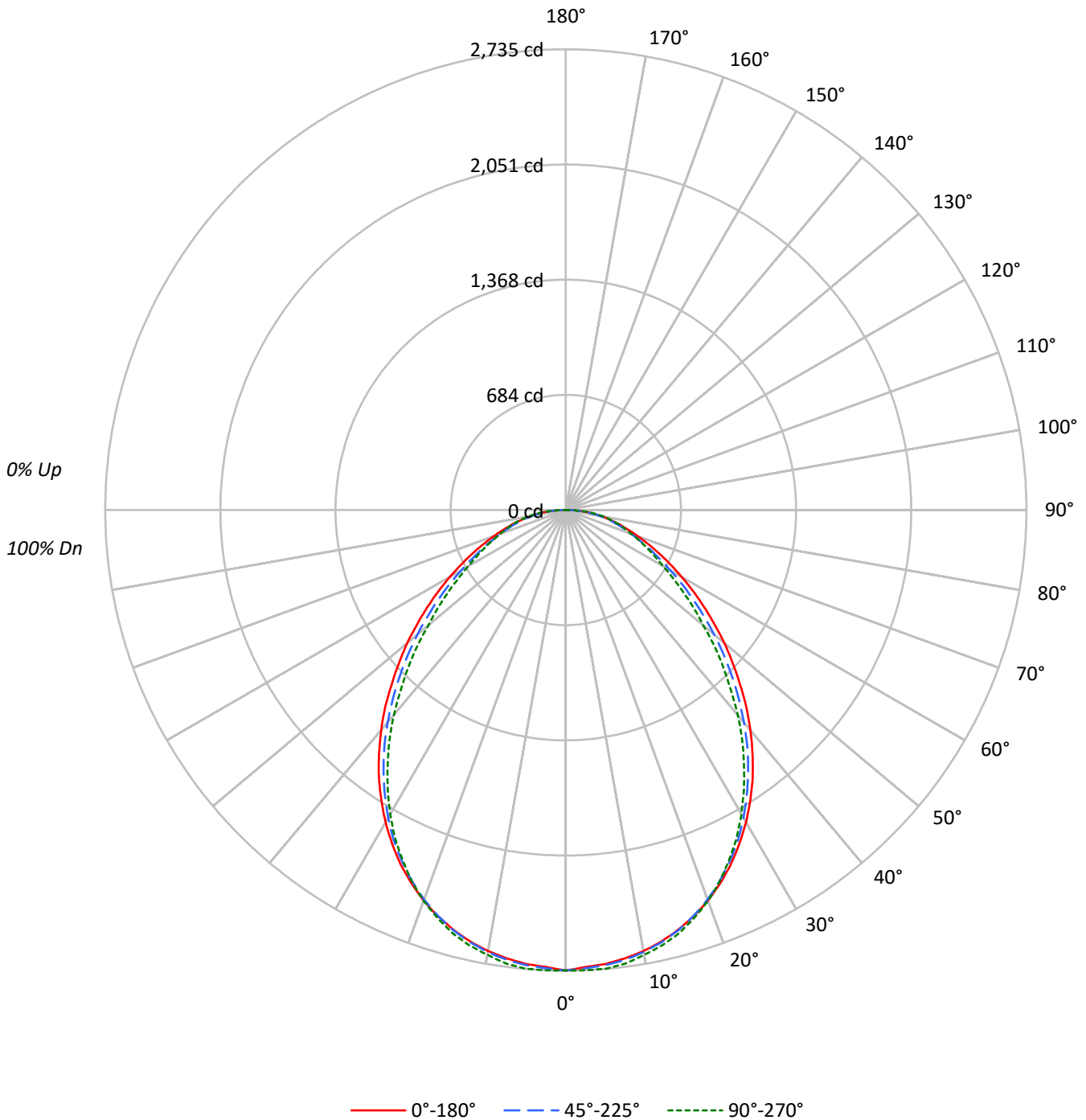
Lumens per Lamp: N/A
Luminaire Lumens: 6150.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	64	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	50	50	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	44	44	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	40	40	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	36	36	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	33	33	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7357	7357	7357
5°	7308	7326	7382
10°	7263	7281	7328
15°	7186	7196	7246
20°	7066	7047	7071
25°	6890	6834	6808
30°	6650	6553	6476
35°	6358	6199	6059
40°	5989	5779	5580
45°	5565	5305	5038
50°	5145	4816	4462
55°	4698	4320	4004
60°	4282	3858	3598
65°	3889	3490	3387
70°	3581	3231	3260
75°	3392	3154	3362
80°	3366	3219	3600
85°	3541	3396	3924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5565 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	4.2
10°-20°	728.9	11.9
20°-30°	1060.4	17.2
30°-40°	1179.9	19.2
40°-50°	1076.9	17.5
50°-60°	829.4	13.5
60°-70°	558.9	9.1
70°-80°	334.2	5.4
80°-90°	123.3	2.0
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°	2047.5	33.3
0°-40°	3227.4	52.5
0°-60°	5133.6	83.5
0°-90°	6150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2734	2734	2734	2734	2734	
5°	2705	2734	2712	2716	2733	257
15°	2579	2601	2583	2585	2601	727
25°	2320	2331	2302	2292	2293	1066
35°	1935	1930	1887	1856	1844	1207
45°	1462	1452	1394	1344	1324	1130
55°	1001	976	921	870	853	898
65°	611	586	548	531	532	610
75°	326	316	303	315	323	348
85°	115	110	110	128	127	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2733.9	2733.9	2733.9	2733.9	2733.9
2.5°	2714.9	2745.2	2722.5	2728.2	2734.8
5°	2705.4	2733.9	2712.1	2715.8	2732.9
7.5°	2684.6	2714.9	2693.1	2695.9	2715.8
10°	2658.0	2685.5	2664.6	2667.5	2681.7
12.5°	2623.9	2648.5	2627.7	2629.6	2646.6
15°	2579.3	2601.1	2583.1	2585.0	2601.1
17.5°	2528.1	2548.0	2525.2	2526.2	2537.6
20°	2467.4	2485.4	2460.8	2455.1	2469.3
22.5°	2397.2	2411.5	2385.8	2377.3	2386.8
25°	2320.4	2330.8	2301.5	2292.0	2292.9
27.5°	2233.2	2241.7	2212.3	2194.3	2196.2
30°	2140.2	2142.1	2109.0	2088.1	2084.3
32.5°	2039.7	2040.7	2000.8	1978.1	1967.7
35°	1935.4	1929.7	1887.1	1855.8	1844.4
37.5°	1821.6	1815.0	1770.4	1732.5	1720.2
40°	1705.0	1695.5	1645.2	1604.5	1588.4
42.5°	1587.4	1575.1	1520.1	1476.5	1449.9
45°	1462.2	1451.8	1394.0	1343.7	1323.8
47.5°	1343.7	1329.5	1270.7	1217.6	1196.7
50°	1229.0	1208.1	1150.3	1094.3	1065.9
52.5°	1112.3	1089.6	1030.8	976.7	958.7
55°	1001.4	975.8	920.8	869.6	853.4
57.5°	895.2	869.6	815.5	770.9	755.8
60°	795.6	767.2	716.9	680.9	668.5
62.5°	699.8	672.3	629.7	601.2	595.5
65°	610.7	586.0	548.1	531.0	532.0
67.5°	530.1	508.3	477.0	471.3	468.4
70°	455.2	437.2	410.6	413.4	414.4
72.5°	387.8	373.6	358.4	362.2	367.9
75°	326.2	315.8	303.4	314.8	323.4
77.5°	270.3	259.8	255.1	268.4	275.9
80°	217.2	208.6	207.7	222.8	232.3
82.5°	165.0	159.3	158.4	175.4	182.1
85°	114.7	110.0	110.0	128.0	127.1
87.5°	61.6	59.7	55.9	67.3	60.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)