

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: P798154

Luminaire Tested: 14GRSCT3-F1-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798154
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

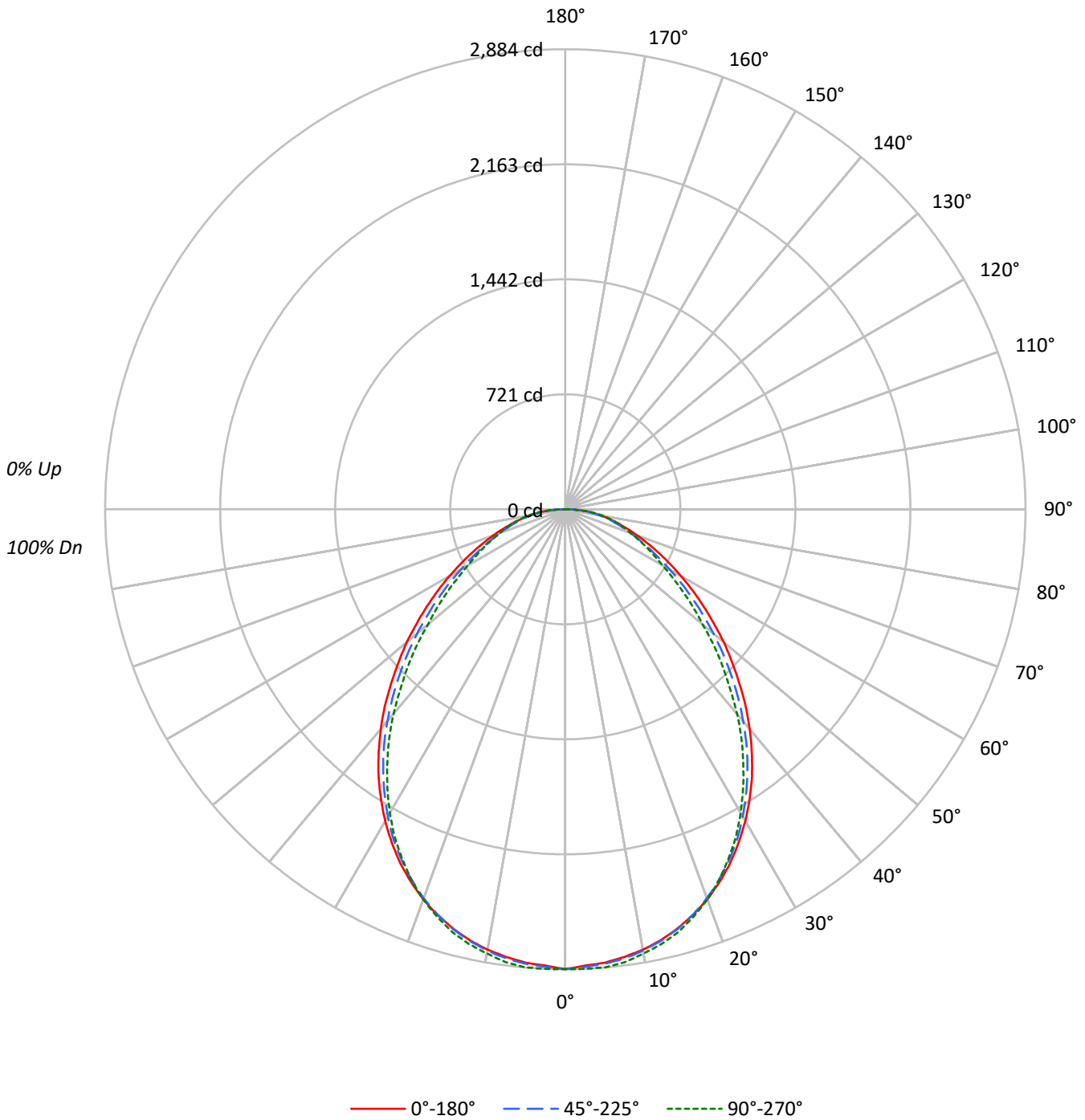
Lumens per Lamp: N/A
Luminaire Lumens: 6485.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62	62	62	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48	48	48	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42	42	42	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31	31	31	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7758	7758	7758
5°	7706	7725	7784
10°	7659	7678	7727
15°	7577	7588	7641
20°	7451	7431	7456
25°	7265	7206	7179
30°	7012	6910	6829
35°	6704	6537	6389
40°	6316	6094	5884
45°	5868	5594	5312
50°	5425	5078	4705
55°	4954	4555	4222
60°	4515	4068	3794
65°	4101	3680	3572
70°	3777	3407	3438
75°	3577	3327	3545
80°	3549	3394	3797
85°	3736	3582	4137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5868 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	4.2
10°-20°	768.7	11.9
20°-30°	1118.2	17.2
30°-40°	1244.1	19.2
40°-50°	1135.5	17.5
50°-60°	874.5	13.5
60°-70°	589.4	9.1
70°-80°	352.5	5.4
80°-90°	130.0	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°	2159.0	33.3
0°-40°	3403.2	52.5
0°-60°	5413.2	83.5
0°-90°	6485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2883	2883	2883	2883	2883	
5°	2853	2883	2860	2864	2882	271
15°	2720	2743	2724	2726	2743	766
25°	2447	2458	2427	2417	2418	1125
35°	2041	2035	1990	1957	1945	1273
45°	1542	1531	1470	1417	1396	1191
55°	1056	1029	971	917	900	947
65°	644	618	578	560	561	643
75°	344	333	320	332	341	367
85°	121	116	116	135	134	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2882.8	2882.8	2882.8	2882.8	2882.8
2.5°	2862.8	2894.8	2870.8	2876.8	2883.8
5°	2852.8	2882.8	2859.8	2863.8	2881.8
7.5°	2830.8	2862.8	2839.8	2842.8	2863.8
10°	2802.8	2831.8	2809.8	2812.8	2827.8
12.5°	2766.8	2792.8	2770.8	2772.8	2790.8
15°	2719.8	2742.8	2723.8	2725.8	2742.8
17.5°	2665.8	2686.8	2662.8	2663.8	2675.8
20°	2601.8	2620.8	2594.8	2588.8	2603.8
22.5°	2527.8	2542.8	2515.8	2506.8	2516.8
25°	2446.8	2457.8	2426.8	2416.8	2417.8
27.5°	2354.8	2363.8	2332.8	2313.8	2315.8
30°	2256.8	2258.8	2223.8	2201.8	2197.8
32.5°	2150.8	2151.8	2109.8	2085.8	2074.8
35°	2040.8	2034.8	1989.8	1956.9	1944.9
37.5°	1920.9	1913.9	1866.9	1826.9	1813.9
40°	1797.9	1787.9	1734.9	1691.9	1674.9
42.5°	1673.9	1660.9	1602.9	1556.9	1528.9
45°	1541.9	1530.9	1469.9	1416.9	1395.9
47.5°	1416.9	1401.9	1339.9	1283.9	1261.9
50°	1295.9	1273.9	1212.9	1153.9	1123.9
52.5°	1172.9	1148.9	1086.9	1029.9	1010.9
55°	1055.9	1028.9	970.9	916.9	899.9
57.5°	943.9	916.9	859.9	812.9	796.9
60°	838.9	808.9	755.9	717.9	704.9
62.5°	737.9	708.9	663.9	634.0	628.0
65°	644.0	618.0	578.0	560.0	561.0
67.5°	559.0	536.0	503.0	497.0	494.0
70°	480.0	461.0	433.0	436.0	437.0
72.5°	409.0	394.0	378.0	382.0	388.0
75°	344.0	333.0	320.0	332.0	341.0
77.5°	285.0	274.0	269.0	283.0	291.0
80°	229.0	220.0	219.0	235.0	245.0
82.5°	174.0	168.0	167.0	185.0	192.0
85°	121.0	116.0	116.0	135.0	134.0
87.5°	65.0	63.0	59.0	71.0	64.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)