

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: P798175

Luminaire Tested: 14GRSCT3-FGW080-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291572)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-FGW080-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

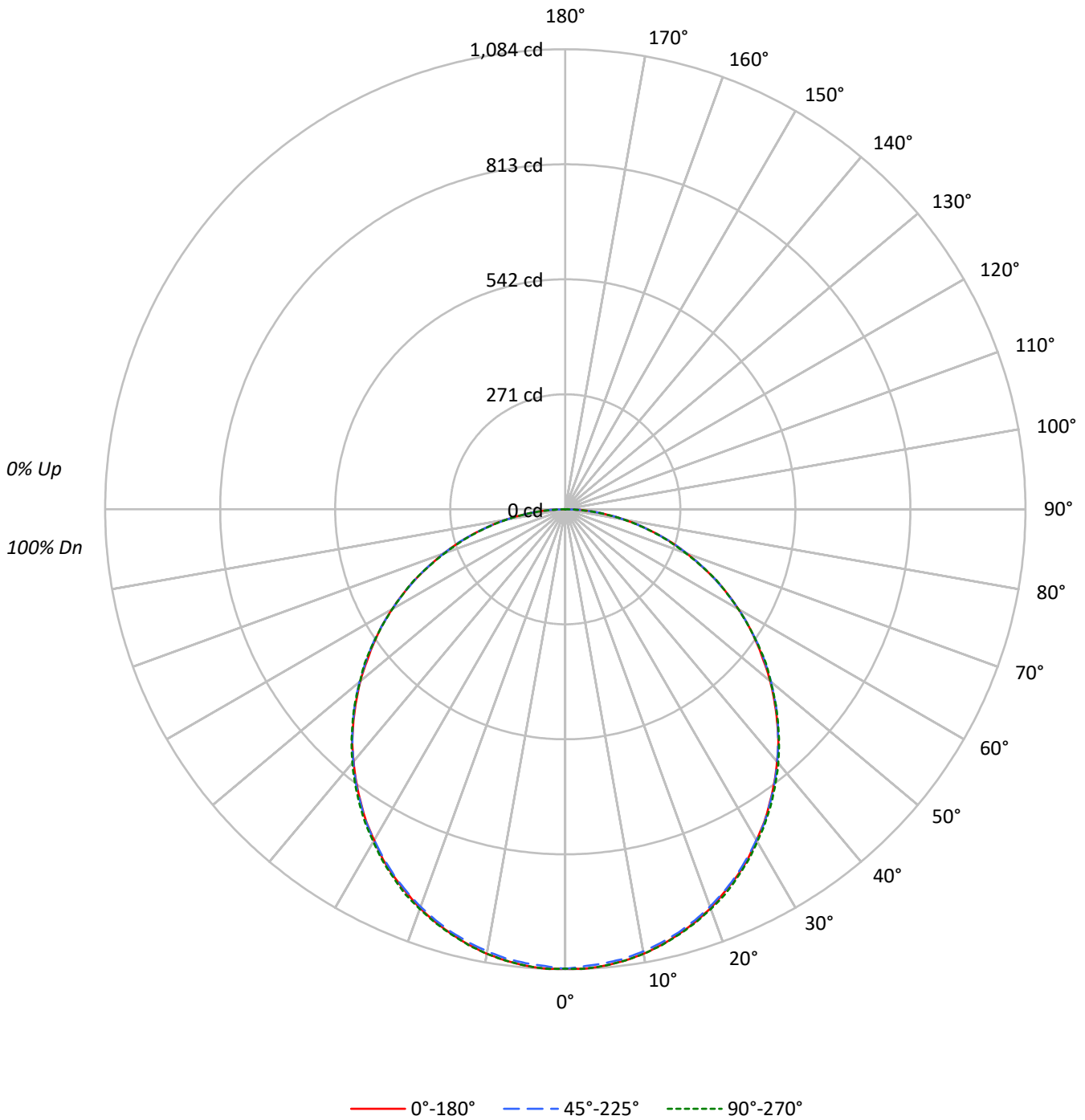
Lumens per Lamp: N/A
Luminaire Lumens: 3095.4 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2913	2913	2913
5°	2916	2900	2916
10°	2907	2890	2907
15°	2886	2875	2889
20°	2865	2854	2871
25°	2836	2829	2844
30°	2798	2798	2810
35°	2763	2766	2779
40°	2725	2729	2742
45°	2685	2692	2697
50°	2638	2647	2643
55°	2586	2600	2595
60°	2535	2535	2535
65°	2477	2477	2489
70°	2398	2398	2375
75°	2314	2304	2295
80°	2210	2193	2176
85°	2075	2050	1982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 2697 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.3
10°-20°	292.2	9.4
20°-30°	440.3	14.2
30°-40°	527.6	17.0
40°-50°	545.6	17.6
50°-60°	494.7	16.0
60°-70°	384.4	12.4
70°-80°	234.8	7.6
80°-90°	73.5	2.4
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°	834.8	27.0
0°-40°	1362.4	44.0
0°-60°	2402.7	77.6
0°-90°	3095.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3095.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1080	1078	1074	1078	1080	103
15°	1036	1036	1032	1037	1037	292
25°	955	955	953	959	958	440
35°	841	842	842	846	846	526
45°	706	706	708	709	709	544
55°	551	553	554	554	553	493
65°	389	389	389	387	391	384
75°	223	223	222	221	221	235
85°	67	65	66	64	64	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.5	1082.5	1082.5	1082.5	1082.5
2.5°	1083.6	1082.5	1077.6	1082.5	1083.6
5°	1079.5	1078.5	1073.6	1078.5	1079.5
7.5°	1072.7	1072.7	1067.8	1072.7	1072.7
10°	1063.7	1062.9	1057.7	1062.9	1063.7
12.5°	1050.9	1050.9	1045.9	1050.9	1051.9
15°	1036.1	1036.1	1032.0	1037.0	1037.0
17.5°	1019.2	1020.3	1015.3	1021.1	1021.1
20°	1000.3	999.5	996.5	1001.4	1002.5
22.5°	977.7	978.7	975.7	981.5	982.6
25°	955.0	955.0	952.8	958.8	958.0
27.5°	930.1	930.1	927.1	932.1	933.1
30°	900.4	901.4	900.4	905.5	904.4
32.5°	872.8	873.8	873.8	875.8	876.6
35°	841.1	842.1	842.1	846.0	846.0
37.5°	809.4	809.4	810.5	813.5	813.5
40°	775.8	776.9	776.9	779.6	780.7
42.5°	743.0	741.1	742.2	745.2	745.2
45°	705.6	706.4	707.5	708.6	708.6
47.5°	667.9	669.8	670.9	672.0	670.9
50°	630.2	632.4	632.4	631.3	631.3
52.5°	589.8	594.7	593.6	593.6	595.8
55°	551.2	553.2	554.2	554.2	553.2
57.5°	512.5	514.6	512.5	513.6	511.6
60°	471.0	472.0	471.0	471.0	471.0
62.5°	430.5	431.3	429.4	429.4	429.4
65°	389.0	389.0	389.0	386.8	390.9
67.5°	345.3	347.2	347.2	348.3	344.4
70°	304.8	305.7	304.8	303.8	301.8
72.5°	264.2	265.2	266.1	262.2	261.2
75°	222.6	222.6	221.6	220.7	220.7
77.5°	182.2	182.2	182.2	180.0	180.0
80°	142.6	143.4	141.5	141.5	140.4
82.5°	103.8	103.8	103.8	103.0	100.8
85°	67.2	65.3	66.4	64.2	64.2
87.5°	30.6	30.6	30.6	28.7	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)