

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P292900

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-FGW080-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2850.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

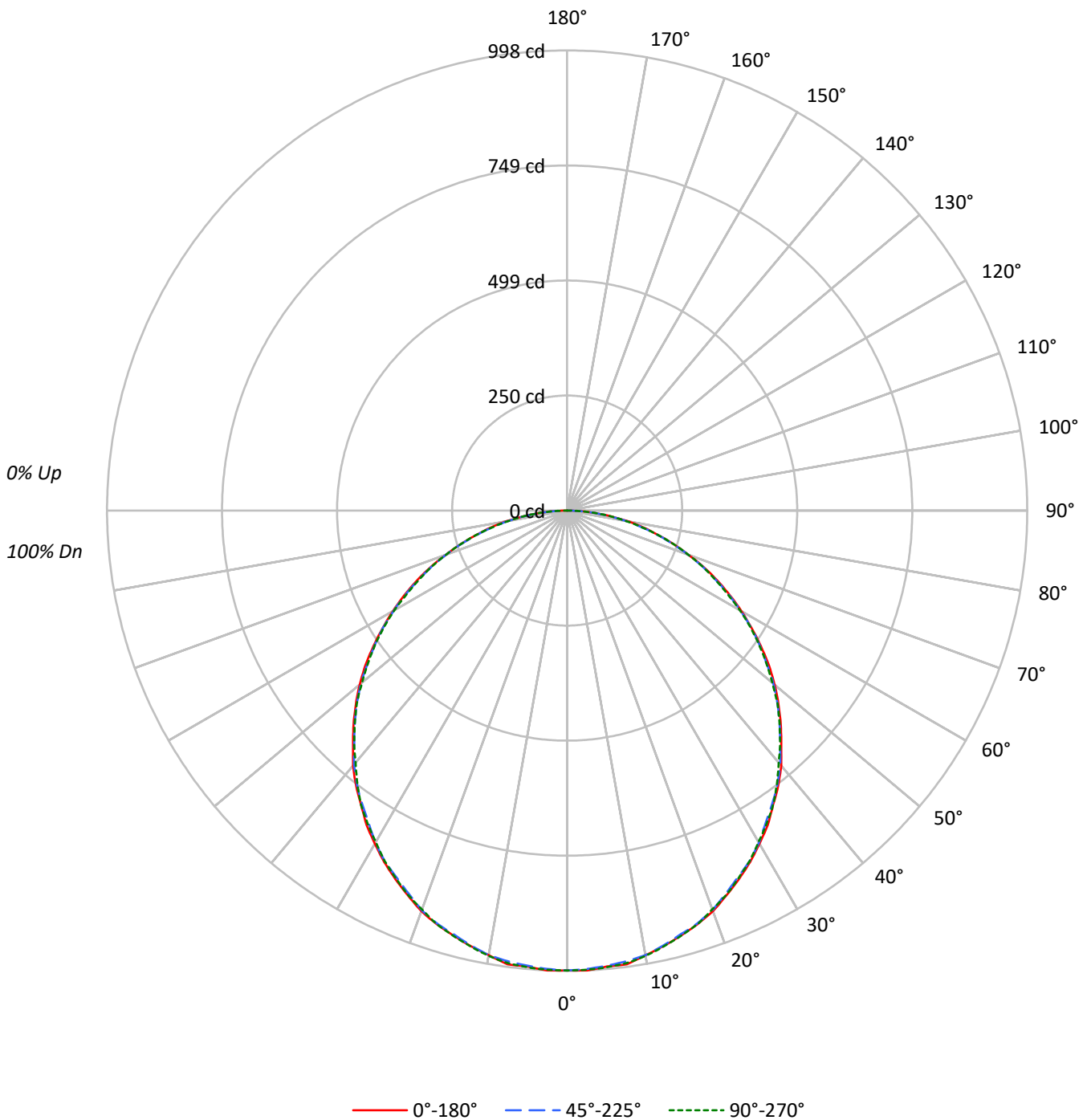
Input Watts (W): 35.061  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

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

	0°	45°	90°
0°	2684	2684	2684
5°	2681	2676	2686
10°	2675	2675	2680
15°	2658	2651	2660
20°	2648	2641	2636
25°	2619	2604	2611
30°	2592	2585	2580
35°	2559	2549	2559
40°	2537	2525	2507
45°	2494	2478	2478
50°	2460	2445	2431
55°	2407	2391	2387
60°	2351	2337	2329
65°	2291	2265	2254
70°	2199	2193	2199
75°	2123	2097	2115
80°	2101	1998	1984
85°	1862	1809	1834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.4	3.3
10°-20°	269.2	9.4
20°-30°	405.4	14.2
30°-40°	486.6	17.1
40°-50°	503.5	17.7
50°-60°	456.2	16.0
60°-70°	353.6	12.4
70°-80°	214.7	7.5
80°-90°	66.4	2.3
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°	769.0	27.0
0°-40°	1255.6	44.1
0°-60°	2215.3	77.7
0°-90°	2850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2850.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	992	992	991	993	994	95
15°	954	954	952	956	955	269
25°	882	880	877	880	880	407
35°	779	779	776	777	779	488
45°	655	654	651	651	651	506
55°	513	512	510	509	509	459
65°	360	360	356	357	354	356
75°	204	203	202	202	203	217
85°	60	59	59	59	59	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	997.5	997.5	997.5	997.5	997.5
2.5°	998.4	994.2	995.0	996.7	996.7
5°	992.5	992.5	990.8	993.3	994.2
7.5°	992.5	988.3	985.8	988.3	990.0
10°	979.1	977.4	979.1	978.3	980.8
12.5°	967.4	965.7	965.7	968.2	968.2
15°	954.0	954.0	951.5	955.7	954.8
17.5°	940.6	940.6	938.9	938.9	940.6
20°	924.7	920.5	922.2	921.4	920.5
22.5°	903.0	900.5	898.8	901.3	902.1
25°	882.0	880.4	877.0	880.4	879.5
27.5°	859.4	857.8	856.9	855.3	856.9
30°	834.3	832.7	831.8	830.2	830.2
32.5°	809.2	805.9	801.7	805.9	805.1
35°	779.1	779.1	775.8	776.6	779.1
37.5°	752.3	750.7	749.0	746.5	747.3
40°	722.2	719.7	718.9	717.2	713.8
42.5°	687.1	687.1	683.7	684.5	683.7
45°	655.3	654.4	651.1	651.1	651.1
47.5°	621.8	620.9	618.4	616.8	618.4
50°	587.5	584.1	584.1	581.6	580.8
52.5°	551.5	549.0	545.6	546.5	544.8
55°	513.0	512.2	509.6	508.8	508.8
57.5°	474.5	475.3	473.7	470.3	471.1
60°	436.8	436.0	434.3	432.7	432.7
62.5°	398.3	398.3	395.0	395.0	391.6
65°	359.8	359.8	355.7	357.3	354.0
67.5°	321.4	320.5	318.0	317.2	318.0
70°	279.5	280.3	278.7	278.7	279.5
72.5°	241.8	241.0	240.2	240.2	241.8
75°	204.2	203.4	201.7	201.7	203.4
77.5°	169.9	165.7	164.9	166.5	164.0
80°	135.6	129.7	128.9	128.0	128.0
82.5°	95.4	92.9	93.7	92.9	94.6
85°	60.3	59.4	58.6	58.6	59.4
87.5°	28.5	26.8	26.8	25.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)