

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: P292892

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292892  
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-LD5-40-FGW080-UNV-L92765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2775.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

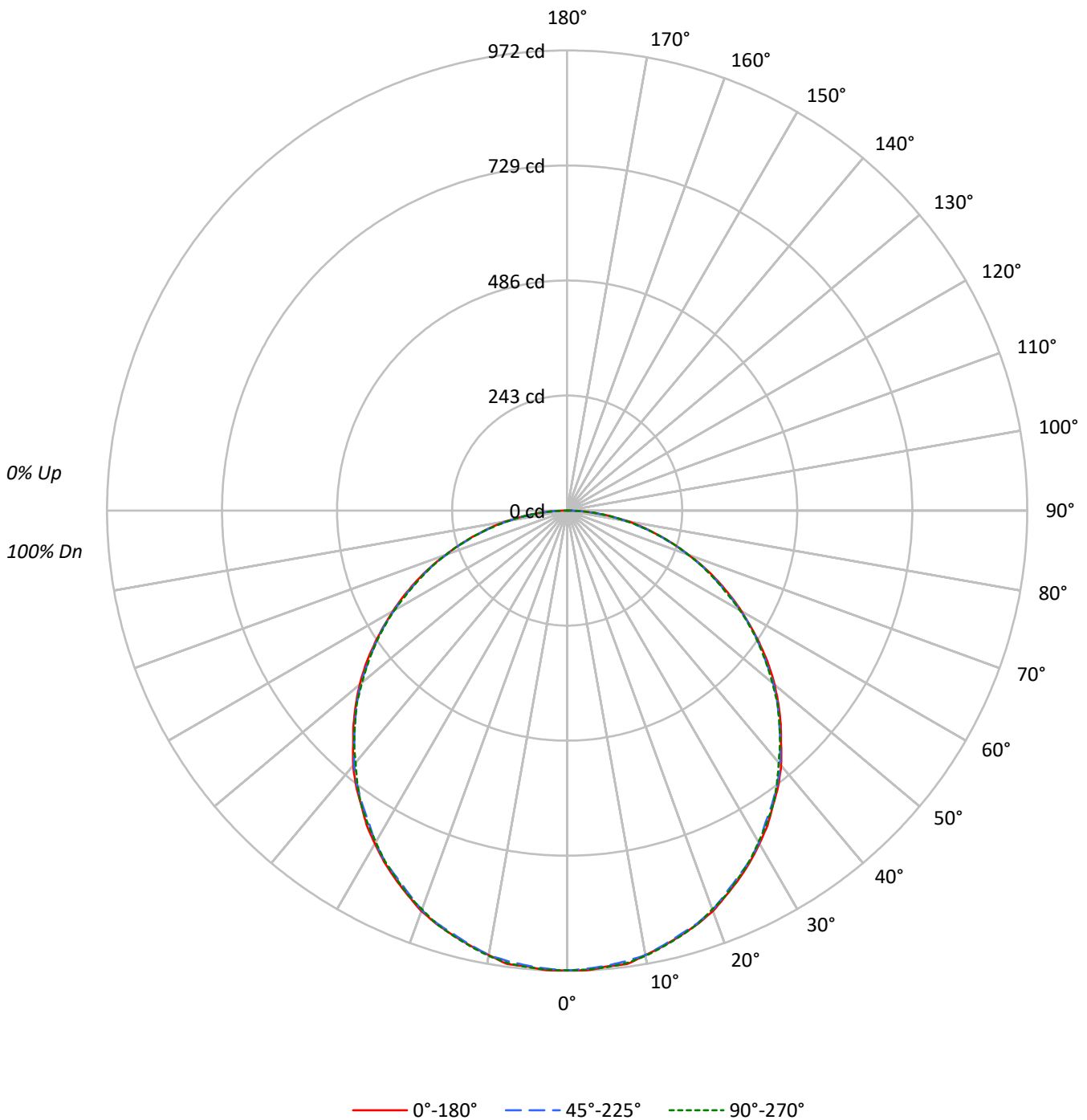
Input Watts (W): 32.085  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2614	2614	2614
5°	2610	2606	2615
10°	2605	2605	2610
15°	2588	2581	2590
20°	2578	2571	2567
25°	2550	2535	2543
30°	2524	2517	2512
35°	2492	2481	2492
40°	2470	2459	2441
45°	2428	2412	2412
50°	2395	2381	2367
55°	2343	2328	2324
60°	2289	2276	2267
65°	2231	2205	2195
70°	2142	2135	2142
75°	2067	2042	2059
80°	2046	1945	1932
85°	1812	1760	1788



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	3.3
10°-20°	262.2	9.4
20°-30°	394.8	14.2
30°-40°	473.7	17.1
40°-50°	490.2	17.7
50°-60°	444.2	16.0
60°-70°	344.3	12.4
70°-80°	209.0	7.5
80°-90°	64.7	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°	748.8	27.0
0°-40°	1222.6	44.1
0°-60°	2157.0	77.7
0°-90°	2775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	966	966	965	967	968	92
15°	929	929	926	930	930	262
25°	859	857	854	857	856	396
35°	759	759	755	756	759	476
45°	638	637	634	634	634	492
55°	500	499	496	495	495	447
65°	350	350	346	348	345	346
75°	199	198	196	196	198	212
85°	59	58	57	57	58	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	971.3	971.3	971.3	971.3	971.3
2.5°	972.1	968.0	968.8	970.5	970.5
5°	966.4	966.4	964.8	967.2	968.0
7.5°	966.4	962.3	959.9	962.3	963.9
10°	953.3	951.7	953.3	952.5	955.0
12.5°	941.9	940.3	940.3	942.8	942.8
15°	928.9	928.9	926.5	930.5	929.7
17.5°	915.9	915.9	914.2	914.2	915.9
20°	900.4	896.3	897.9	897.1	896.3
22.5°	879.2	876.8	875.1	877.6	878.4
25°	858.8	857.2	853.9	857.2	856.4
27.5°	836.8	835.2	834.4	832.8	834.4
30°	812.4	810.8	809.9	808.3	808.3
32.5°	787.9	784.7	780.6	784.7	783.9
35°	758.6	758.6	755.3	756.2	758.6
37.5°	732.5	730.9	729.3	726.8	727.6
40°	703.2	700.8	699.9	698.3	695.0
42.5°	669.0	669.0	665.7	666.5	665.7
45°	638.0	637.2	633.9	633.9	633.9
47.5°	605.4	604.6	602.2	600.5	602.2
50°	572.0	568.8	568.8	566.3	565.5
52.5°	537.0	534.5	531.3	532.1	530.5
55°	499.5	498.7	496.2	495.4	495.4
57.5°	462.0	462.8	461.2	457.9	458.7
60°	425.3	424.5	422.9	421.3	421.3
62.5°	387.9	387.9	384.6	384.6	381.3
65°	350.4	350.4	346.3	347.9	344.7
67.5°	312.9	312.1	309.6	308.8	309.6
70°	272.2	273.0	271.3	271.3	272.2
72.5°	235.5	234.7	233.9	233.9	235.5
75°	198.8	198.0	196.4	196.4	198.0
77.5°	165.4	161.3	160.5	162.2	159.7
80°	132.0	126.3	125.5	124.7	124.7
82.5°	92.9	90.4	91.3	90.4	92.1
85°	58.7	57.9	57.0	57.0	57.9
87.5°	27.7	26.1	26.1	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)