

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: P476137

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476137  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-36-FGW080-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3130.5 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

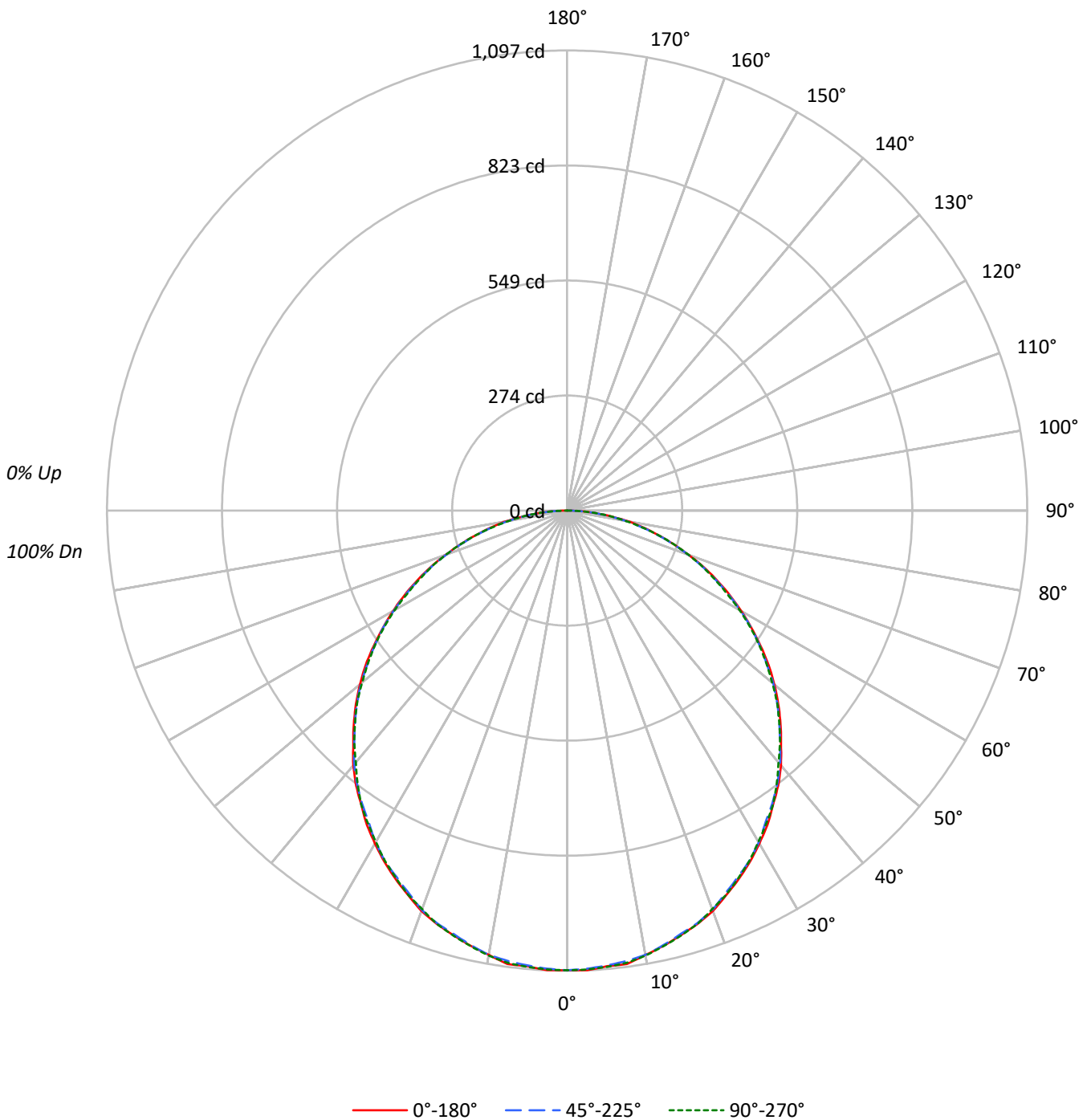
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2949	2949	2949
5°	2945	2940	2950
10°	2939	2939	2944
15°	2920	2912	2922
20°	2909	2901	2896
25°	2877	2860	2869
30°	2848	2839	2833
35°	2812	2800	2812
40°	2787	2774	2754
45°	2739	2721	2721
50°	2701	2686	2670
55°	2644	2627	2622
60°	2582	2568	2558
65°	2516	2487	2475
70°	2416	2409	2416
75°	2332	2303	2322
80°	2306	2193	2177
85°	2044	1988	2016



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.7	3.3
10°-20°	295.8	9.4
20°-30°	445.3	14.2
30°-40°	534.5	17.1
40°-50°	553.0	17.7
50°-60°	501.1	16.0
60°-70°	388.4	12.4
70°-80°	235.8	7.5
80°-90°	73.0	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°	844.8	27.0
0°-40°	1379.2	44.1
0°-60°	2433.3	77.7
0°-90°	3130.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1090	1090	1088	1091	1092	104
15°	1048	1048	1045	1050	1049	296
25°	969	967	963	967	966	447
35°	856	856	852	853	856	537
45°	720	719	715	715	715	555
55°	564	563	560	559	559	504
65°	395	395	391	392	389	391
75°	224	223	222	222	223	239
85°	66	65	64	64	65	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1096.7	1092.1	1093.0	1094.9	1094.9
5°	1090.3	1090.3	1088.4	1091.2	1092.1
7.5°	1090.3	1085.7	1082.9	1085.7	1087.5
10°	1075.6	1073.7	1075.6	1074.6	1077.4
12.5°	1062.7	1060.8	1060.8	1063.6	1063.6
15°	1048.0	1048.0	1045.2	1049.8	1048.9
17.5°	1033.2	1033.2	1031.4	1031.4	1033.2
20°	1015.8	1011.2	1013.0	1012.1	1011.2
22.5°	991.8	989.1	987.2	990.0	990.9
25°	968.8	967.0	963.3	967.0	966.1
27.5°	944.0	942.2	941.2	939.4	941.2
30°	916.4	914.6	913.6	911.8	911.8
32.5°	888.8	885.1	880.5	885.1	884.2
35°	855.9	855.9	852.2	853.1	855.9
37.5°	826.5	824.6	822.8	820.0	820.9
40°	793.3	790.6	789.7	787.8	784.1
42.5°	754.7	754.7	751.0	751.9	751.0
45°	719.7	718.8	715.1	715.1	715.1
47.5°	682.9	682.0	679.2	677.4	679.2
50°	645.2	641.5	641.5	638.8	637.8
52.5°	605.9	603.1	599.4	600.3	598.5
55°	563.5	562.6	559.9	558.9	558.9
57.5°	521.2	522.1	520.3	516.6	517.5
60°	479.8	478.9	477.1	475.2	475.2
62.5°	437.5	437.5	433.8	433.8	430.1
65°	395.2	395.2	390.6	392.4	388.7
67.5°	353.1	352.2	349.4	348.5	349.4
70°	307.1	308.0	306.2	306.2	307.1
72.5°	265.7	264.8	263.8	263.8	265.7
75°	224.3	223.3	221.5	221.5	223.3
77.5°	186.5	181.9	181.0	182.9	180.1
80°	148.8	142.4	141.5	140.5	140.5
82.5°	104.9	102.1	103.0	102.1	104.0
85°	66.2	65.3	64.4	64.4	65.3
87.5°	31.3	29.4	29.4	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)