

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: P476124

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476124  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-FGW080-UNV-L830-CD1-U  
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2684.7 lumens  
Efficiency: N/A  
Efficacy: 107.4 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

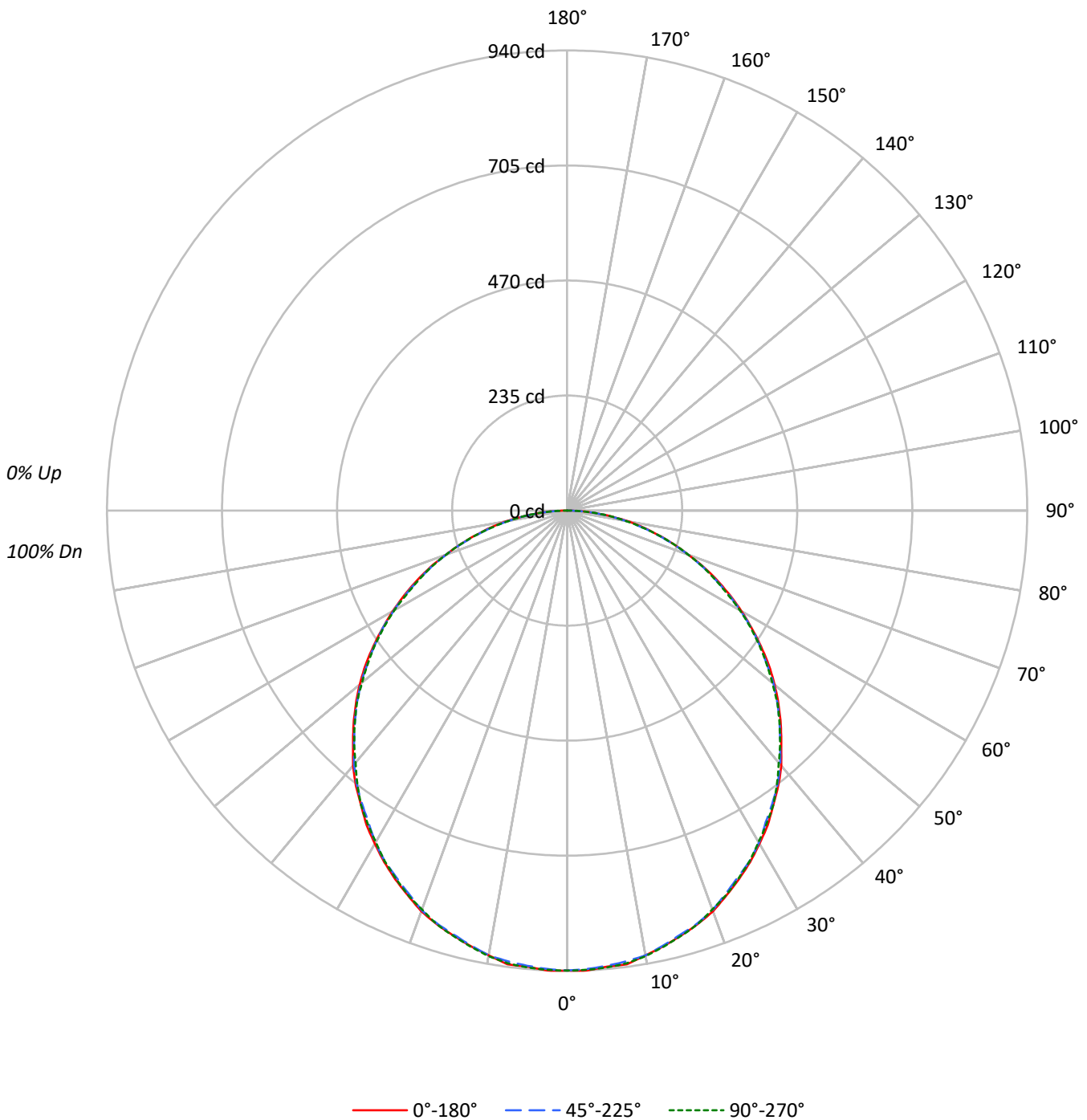
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2529	2529	2529
5°	2526	2521	2530
10°	2520	2520	2525
15°	2504	2497	2506
20°	2495	2488	2483
25°	2467	2453	2460
30°	2442	2435	2430
35°	2411	2401	2411
40°	2390	2379	2362
45°	2349	2334	2334
50°	2316	2303	2290
55°	2267	2252	2249
60°	2215	2202	2193
65°	2158	2132	2123
70°	2072	2066	2072
75°	1999	1975	1991
80°	1977	1880	1867
85°	1754	1704	1729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	3.3
10°-20°	253.6	9.4
20°-30°	381.9	14.2
30°-40°	458.3	17.1
40°-50°	474.2	17.7
50°-60°	429.8	16.0
60°-70°	333.1	12.4
70°-80°	202.2	7.5
80°-90°	62.6	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°	724.4	27.0
0°-40°	1182.8	44.1
0°-60°	2086.8	77.7
0°-90°	2684.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	935	935	933	936	937	89
15°	899	899	896	900	900	254
25°	831	829	826	829	828	383
35°	734	734	731	732	734	460
45°	617	616	613	613	613	476
55°	483	482	480	479	479	432
65°	339	339	335	336	333	335
75°	192	192	190	190	192	205
85°	57	56	55	55	56	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	939.7	939.7	939.7	939.7	939.7
2.5°	940.5	936.6	937.4	938.9	938.9
5°	935.0	935.0	933.4	935.8	936.6
7.5°	935.0	931.1	928.7	931.1	932.6
10°	922.4	920.8	922.4	921.6	924.0
12.5°	911.3	909.8	909.8	912.1	912.1
15°	898.7	898.7	896.3	900.3	899.5
17.5°	886.1	886.1	884.5	884.5	886.1
20°	871.1	867.1	868.7	867.9	867.1
22.5°	850.6	848.2	846.6	849.0	849.8
25°	830.8	829.3	826.1	829.3	828.5
27.5°	809.5	808.0	807.2	805.6	807.2
30°	785.9	784.3	783.5	781.9	781.9
32.5°	762.2	759.0	755.1	759.0	758.3
35°	734.0	734.0	730.8	731.6	734.0
37.5°	708.7	707.2	705.6	703.2	704.0
40°	680.3	678.0	677.2	675.6	672.5
42.5°	647.2	647.2	644.0	644.8	644.0
45°	617.2	616.4	613.3	613.3	613.3
47.5°	585.7	584.9	582.5	580.9	582.5
50°	553.3	550.2	550.2	547.8	547.0
52.5°	519.6	517.2	514.1	514.8	513.3
55°	483.3	482.5	480.1	479.3	479.3
57.5°	447.0	447.8	446.2	443.0	443.8
60°	411.5	410.7	409.1	407.5	407.5
62.5°	375.2	375.2	372.0	372.0	368.9
65°	338.9	338.9	334.9	336.5	333.4
67.5°	302.8	302.0	299.6	298.8	299.6
70°	263.3	264.1	262.6	262.6	263.3
72.5°	227.8	227.0	226.3	226.3	227.8
75°	192.3	191.5	190.0	190.0	191.5
77.5°	160.0	156.0	155.2	156.8	154.5
80°	127.6	122.1	121.3	120.5	120.5
82.5°	89.9	87.6	88.4	87.6	89.2
85°	56.8	56.0	55.2	55.2	56.0
87.5°	26.8	25.2	25.2	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)