

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: P476136

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476136  
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-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: 2782.1 lumens  
Efficiency: N/A  
Efficacy: 111.3 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

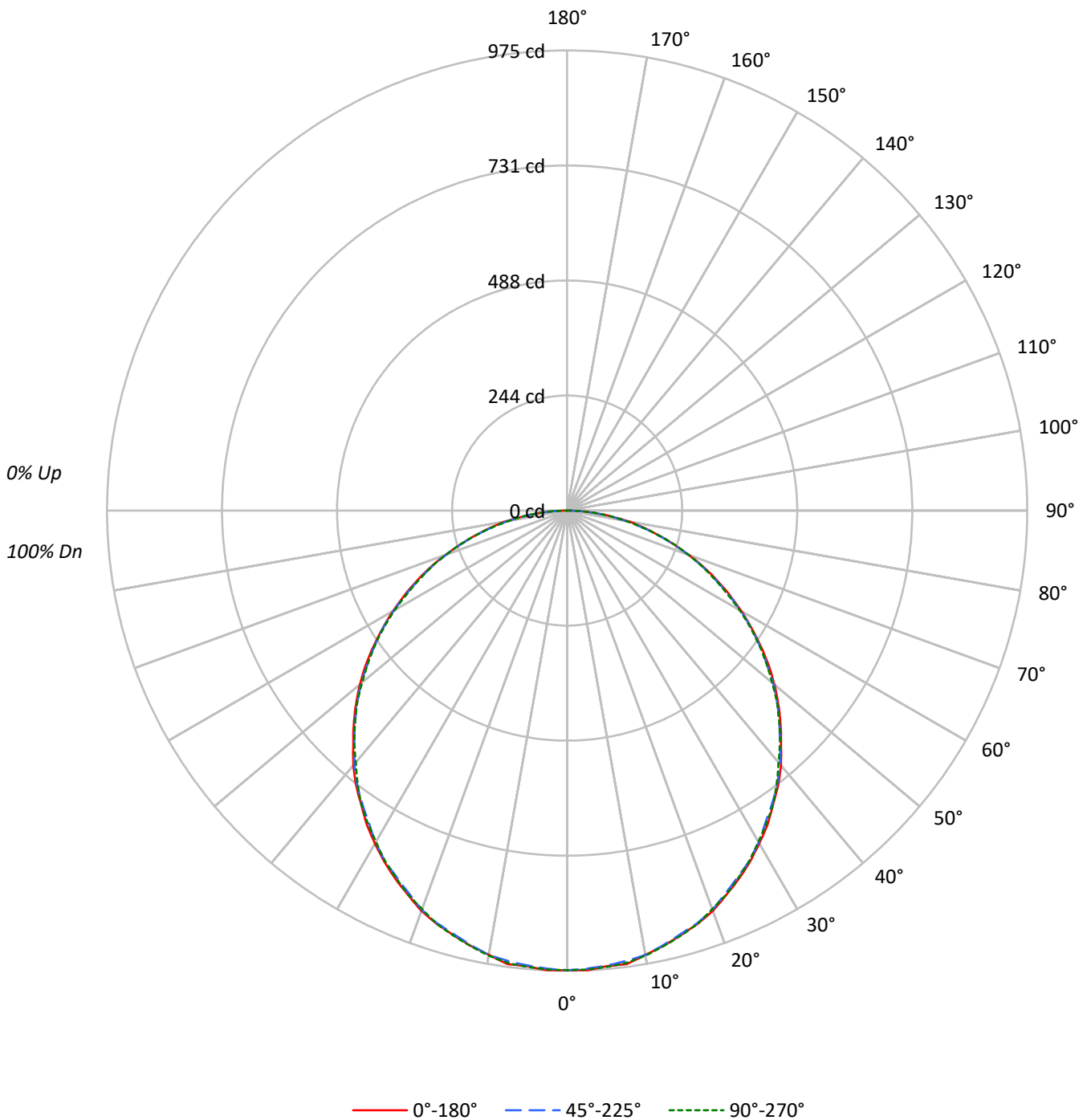
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2620	2620	2620
5°	2617	2613	2622
10°	2612	2612	2616
15°	2595	2588	2597
20°	2585	2578	2573
25°	2556	2542	2549
30°	2531	2523	2518
35°	2499	2488	2499
40°	2477	2465	2448
45°	2434	2418	2418
50°	2400	2387	2373
55°	2350	2334	2330
60°	2295	2282	2273
65°	2236	2210	2200
70°	2147	2141	2147
75°	2072	2046	2064
80°	2050	1948	1936
85°	1819	1766	1794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	3.3
10°-20°	262.8	9.4
20°-30°	395.8	14.2
30°-40°	475.0	17.1
40°-50°	491.4	17.7
50°-60°	445.3	16.0
60°-70°	345.2	12.4
70°-80°	209.5	7.5
80°-90°	64.9	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°	750.7	27.0
0°-40°	1225.7	44.1
0°-60°	2162.4	77.7
0°-90°	2782.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	969	969	967	970	970	92
15°	931	931	929	933	932	263
25°	861	859	856	859	858	397
35°	761	761	757	758	761	477
45°	640	639	636	636	636	494
55°	501	500	498	497	497	448
65°	351	351	347	349	346	347
75°	199	198	197	197	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°	973.8	973.8	973.8	973.8	973.8
2.5°	974.6	970.5	971.4	973.0	973.0
5°	968.9	968.9	967.3	969.7	970.5
7.5°	968.9	964.8	962.4	964.8	966.5
10°	955.8	954.2	955.8	955.0	957.5
12.5°	944.4	942.7	942.7	945.2	945.2
15°	931.3	931.3	928.8	932.9	932.1
17.5°	918.2	918.2	916.6	916.6	918.2
20°	902.7	898.6	900.2	899.4	898.6
22.5°	881.4	879.0	877.3	879.8	880.6
25°	861.0	859.3	856.1	859.3	858.5
27.5°	838.9	837.3	836.5	834.8	836.5
30°	814.4	812.7	811.9	810.3	810.3
32.5°	789.8	786.6	782.5	786.6	785.8
35°	760.6	760.6	757.3	758.2	760.6
37.5°	734.5	732.8	731.2	728.7	729.5
40°	705.0	702.6	701.7	700.1	696.8
42.5°	670.7	670.7	667.4	668.2	667.4
45°	639.6	638.8	635.5	635.5	635.5
47.5°	606.9	606.1	603.6	602.0	603.6
50°	573.4	570.1	570.1	567.7	566.8
52.5°	538.4	536.0	532.7	533.5	531.9
55°	500.8	500.0	497.5	496.7	496.7
57.5°	463.2	464.0	462.4	459.1	459.9
60°	426.4	425.6	424.0	422.3	422.3
62.5°	388.8	388.8	385.5	385.5	382.3
65°	351.2	351.2	347.1	348.7	345.5
67.5°	313.8	313.0	310.5	309.7	310.5
70°	272.9	273.7	272.1	272.1	272.9
72.5°	236.1	235.3	234.5	234.5	236.1
75°	199.3	198.5	196.8	196.8	198.5
77.5°	165.8	161.7	160.9	162.5	160.1
80°	132.3	126.5	125.7	124.9	124.9
82.5°	93.2	90.8	91.6	90.8	92.4
85°	58.9	58.1	57.2	57.2	58.1
87.5°	27.8	26.2	26.2	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)