

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: P476160

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476160  
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-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2837.7 lumens  
Efficiency: N/A  
Efficacy: 113.5 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

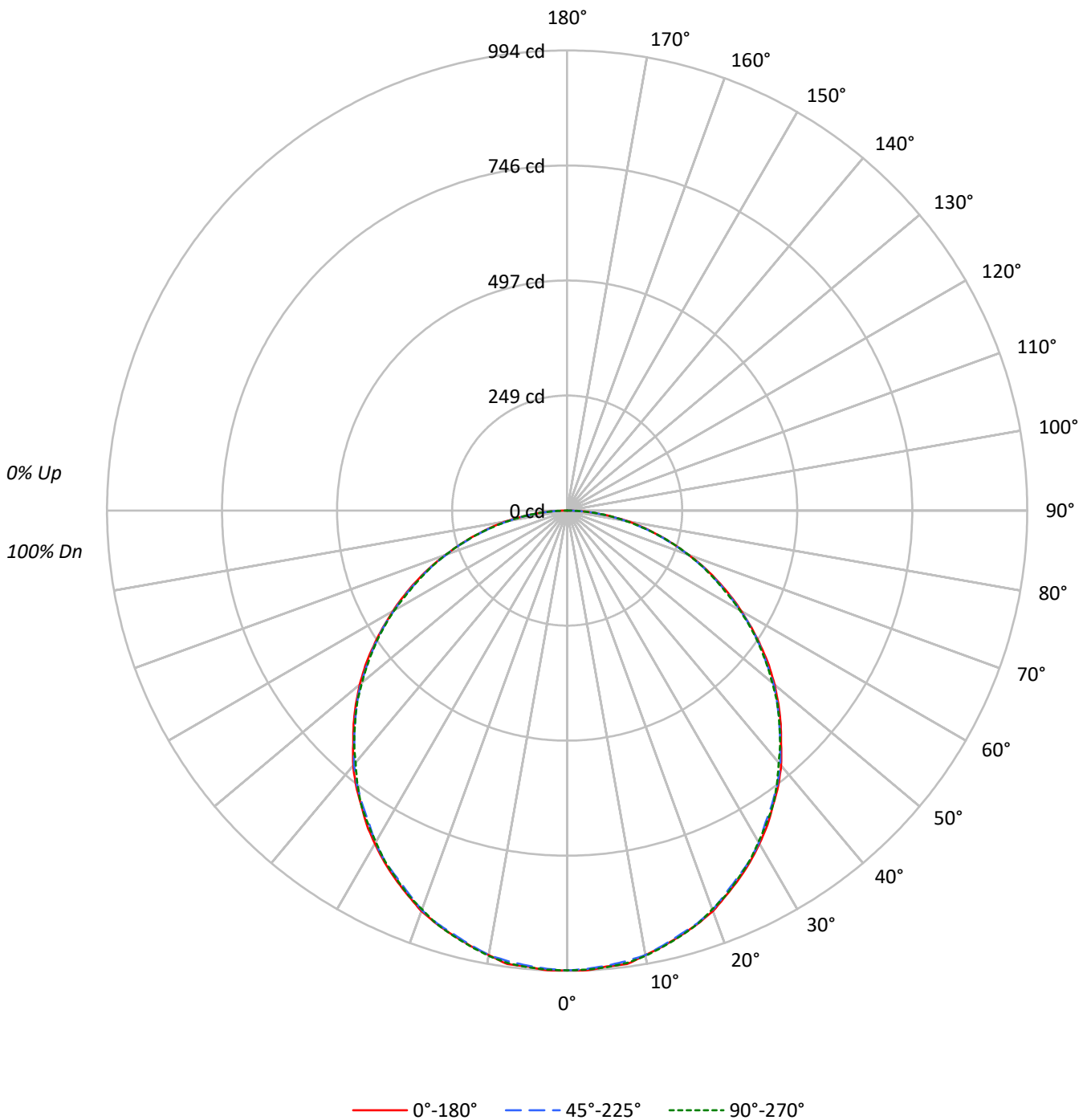
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2673	2673	2673
5°	2670	2665	2674
10°	2664	2664	2669
15°	2646	2639	2649
20°	2637	2629	2625
25°	2608	2593	2600
30°	2581	2573	2568
35°	2549	2538	2549
40°	2526	2514	2497
45°	2483	2467	2467
50°	2448	2434	2421
55°	2396	2381	2377
60°	2341	2327	2319
65°	2281	2254	2244
70°	2190	2183	2190
75°	2114	2088	2105
80°	2091	1987	1974
85°	1853	1803	1828



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	3.3
10°-20°	268.1	9.4
20°-30°	403.7	14.2
30°-40°	484.4	17.1
40°-50°	501.3	17.7
50°-60°	454.3	16.0
60°-70°	352.1	12.4
70°-80°	213.7	7.5
80°-90°	66.2	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°	765.7	27.0
0°-40°	1250.2	44.1
0°-60°	2205.7	77.7
0°-90°	2837.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	988	988	987	989	990	94
15°	950	950	947	952	951	268
25°	878	876	873	876	876	405
35°	776	776	772	773	776	486
45°	652	652	648	648	648	503
55°	511	510	508	507	507	457
65°	358	358	354	356	352	354
75°	203	202	201	201	202	216
85°	60	59	58	58	59	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	993.3	993.3	993.3	993.3	993.3
2.5°	994.1	990.0	990.8	992.5	992.5
5°	988.3	988.3	986.6	989.1	990.0
7.5°	988.3	984.1	981.6	984.1	985.8
10°	974.9	973.3	974.9	974.1	976.6
12.5°	963.3	961.6	961.6	964.1	964.1
15°	949.9	949.9	947.4	951.6	950.8
17.5°	936.6	936.6	934.9	934.9	936.6
20°	920.7	916.6	918.2	917.4	916.6
22.5°	899.1	896.6	894.9	897.4	898.2
25°	878.2	876.5	873.2	876.5	875.7
27.5°	855.7	854.0	853.2	851.5	853.2
30°	830.7	829.0	828.2	826.5	826.5
32.5°	805.6	802.3	798.1	802.3	801.5
35°	775.8	775.8	772.5	773.3	775.8
37.5°	749.1	747.5	745.8	743.3	744.1
40°	719.1	716.6	715.8	714.1	710.8
42.5°	684.1	684.1	680.8	681.6	680.8
45°	652.4	651.6	648.2	648.2	648.2
47.5°	619.0	618.2	615.7	614.0	615.7
50°	584.8	581.5	581.5	579.0	578.2
52.5°	549.2	546.7	543.4	544.2	542.5
55°	510.8	510.0	507.5	506.7	506.7
57.5°	472.5	473.3	471.6	468.3	469.1
60°	434.9	434.1	432.4	430.8	430.8
62.5°	396.6	396.6	393.2	393.2	389.9
65°	358.2	358.2	354.0	355.7	352.4
67.5°	320.0	319.2	316.7	315.9	316.7
70°	278.3	279.2	277.5	277.5	278.3
72.5°	240.8	240.0	239.2	239.2	240.8
75°	203.3	202.5	200.8	200.8	202.5
77.5°	169.1	164.9	164.1	165.8	163.3
80°	134.9	129.1	128.2	127.4	127.4
82.5°	95.1	92.6	93.4	92.6	94.2
85°	60.0	59.2	58.4	58.4	59.2
87.5°	28.4	26.7	26.7	25.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)