

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: P475960

Luminaire Tested: **22GR-LD5-50-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475960  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-50-F125-UNV-L840-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5155.1 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

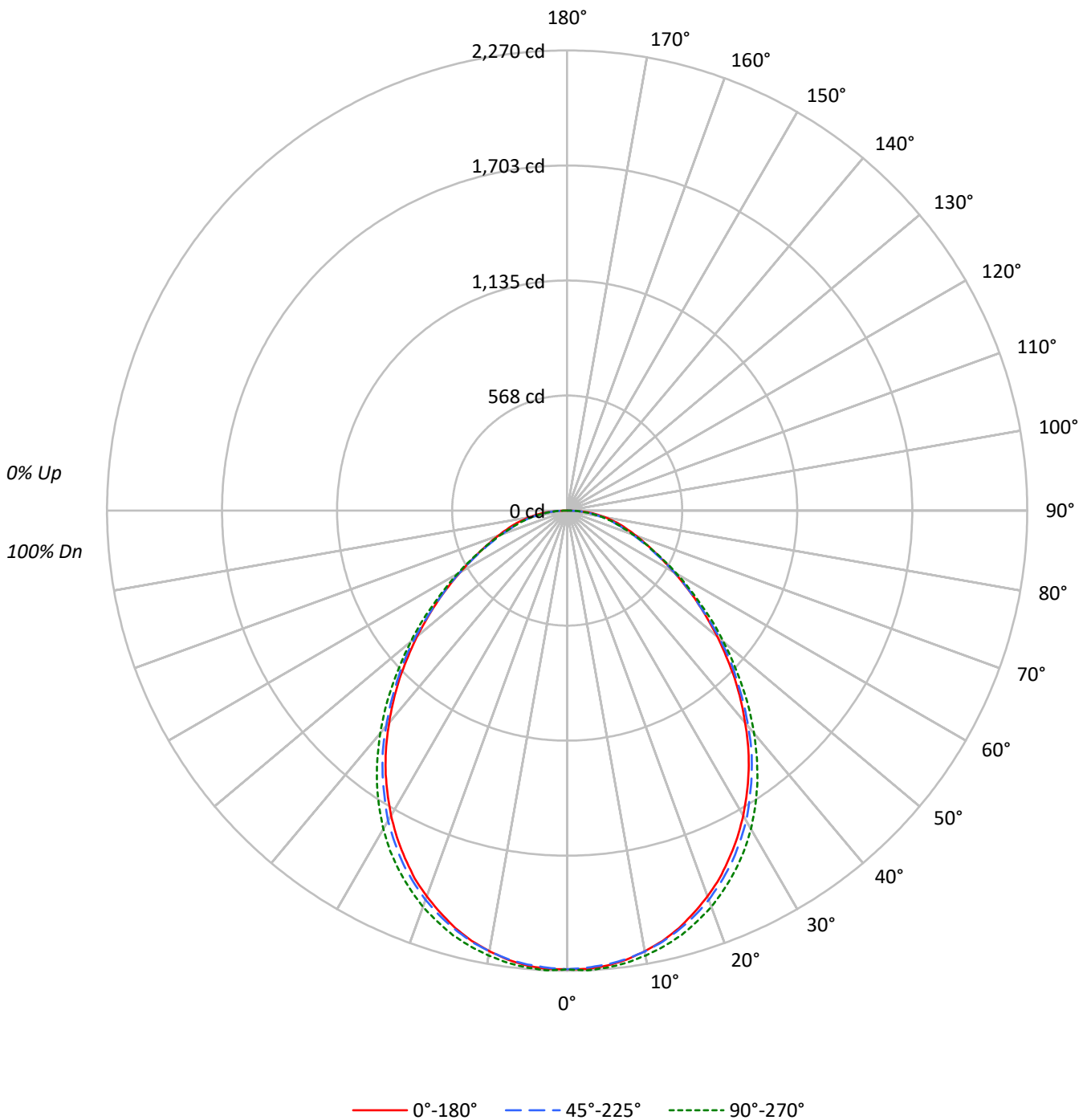
Input Watts (W): 36.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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

	0°	45°	90°
0°	6090	6090	6090
5°	6087	6071	6113
10°	6031	6034	6089
15°	5939	5958	6045
20°	5799	5851	5957
25°	5619	5697	5821
30°	5396	5490	5634
35°	5131	5215	5376
40°	4799	4878	5038
45°	4443	4512	4643
50°	4046	4111	4217
55°	3654	3664	3771
60°	3277	3289	3367
65°	2986	2924	2992
70°	2841	2681	2729
75°	2859	2586	2599
80°	2968	2614	2594
85°	3254	2766	2618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.8	4.1
10°-20°	604.0	11.7
20°-30°	884.0	17.1
30°-40°	993.9	19.3
40°-50°	916.6	17.8
50°-60°	706.5	13.7
60°-70°	466.2	9.0
70°-80°	271.3	5.3
80°-90°	98.8	1.9
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°	1701.8	33.0
0°-40°	2695.7	52.3
0°-60°	4318.8	83.8
0°-90°	5155.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5155.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2263	2263	2263	2263	2263	
5°	2254	2249	2248	2258	2263	214
15°	2132	2132	2139	2158	2170	600
25°	1892	1902	1919	1945	1960	870
35°	1562	1569	1587	1620	1636	974
45°	1167	1169	1186	1209	1220	899
55°	779	778	781	794	804	699
65°	469	466	459	463	470	470
75°	275	263	249	244	250	290
85°	105	104	90	83	85	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2263.0	2263.0	2263.0	2263.0	2263.0
2.5°	2263.0	2258.3	2257.0	2265.5	2270.3
5°	2253.5	2248.8	2247.5	2258.3	2263.0
7.5°	2234.5	2230.7	2232.0	2244.0	2250.0
10°	2207.0	2205.7	2208.3	2221.2	2228.5
12.5°	2174.7	2173.4	2178.2	2192.4	2202.2
15°	2131.7	2131.7	2138.6	2157.9	2170.0
17.5°	2080.1	2083.6	2094.3	2113.6	2126.6
20°	2025.0	2028.8	2043.1	2064.6	2080.1
22.5°	1963.9	1969.0	1983.3	2009.5	2022.8
25°	1892.4	1901.9	1918.7	1945.0	1960.5
27.5°	1818.1	1828.8	1844.3	1876.9	1891.2
30°	1736.7	1744.0	1766.8	1796.5	1813.3
32.5°	1650.7	1657.9	1676.9	1713.0	1727.2
35°	1562.0	1569.3	1587.4	1619.6	1636.4
37.5°	1466.5	1472.5	1494.0	1519.0	1537.0
40°	1366.2	1374.4	1388.6	1418.7	1434.2
42.5°	1268.1	1271.5	1287.0	1317.1	1328.8
45°	1167.4	1168.7	1185.5	1209.2	1220.0
47.5°	1063.3	1065.8	1086.1	1100.3	1111.1
50°	966.5	967.7	982.0	995.3	1007.3
52.5°	869.6	869.6	876.9	891.1	906.7
55°	778.8	777.5	781.0	794.3	803.8
57.5°	692.7	691.5	696.2	704.4	711.7
60°	608.9	606.3	611.1	616.1	625.6
62.5°	534.8	537.0	531.0	538.3	545.6
65°	469.0	466.5	459.2	463.0	469.9
67.5°	412.7	409.2	397.2	399.4	407.9
70°	361.1	354.1	340.8	340.8	346.8
72.5°	314.6	307.3	290.5	291.8	294.3
75°	275.0	263.3	248.7	244.0	250.0
77.5°	232.0	222.5	209.2	205.7	208.2
80°	191.5	184.2	168.7	163.9	167.4
82.5°	151.9	145.9	127.8	124.4	125.6
85°	105.4	104.1	89.6	82.6	84.8
87.5°	56.3	57.3	46.5	41.8	44.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)