

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: P475935

Luminaire Tested: **22GR-LD5-43-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475935  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-F125-UNV-L830-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4204.4 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

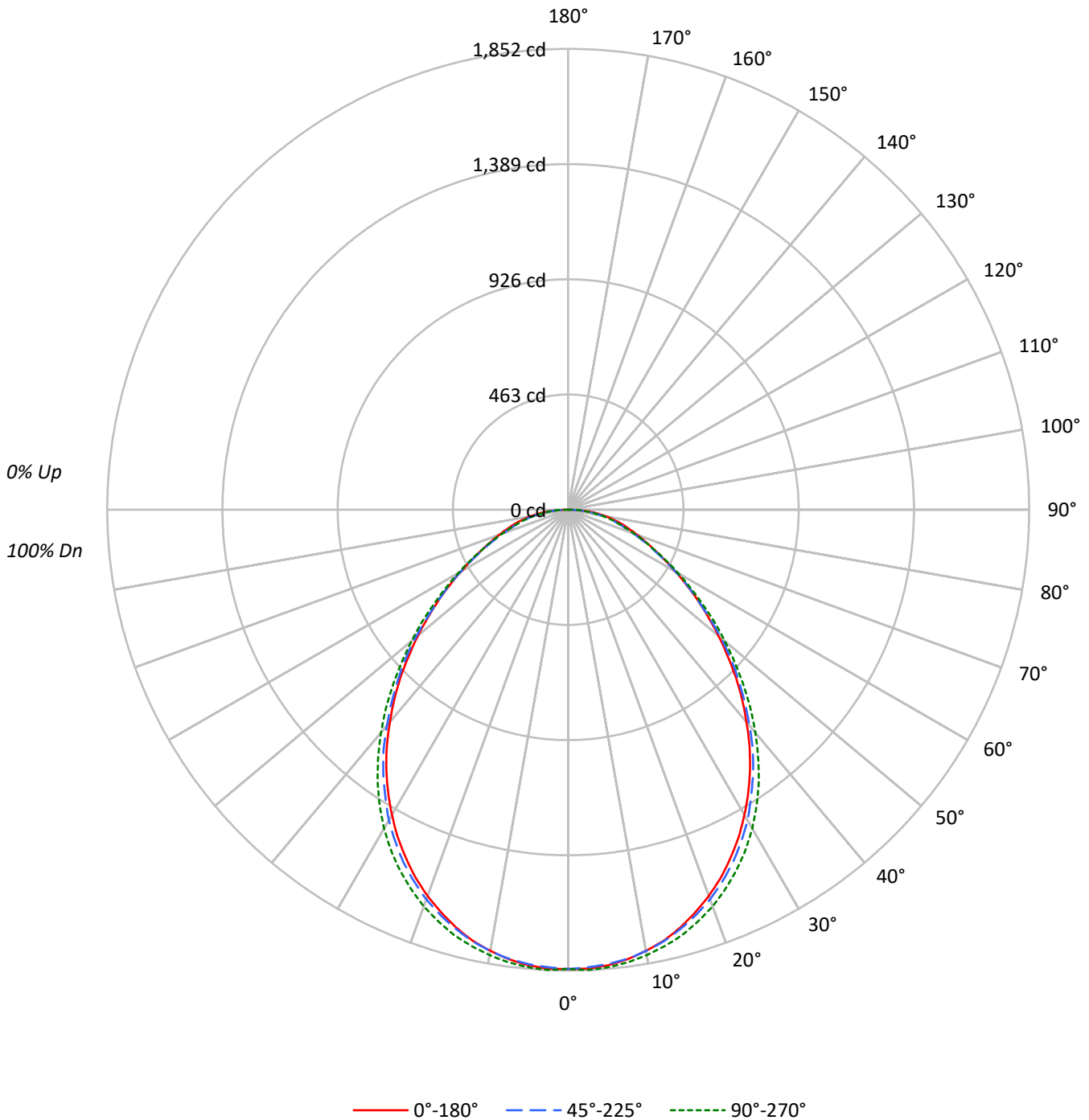
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4967	4967	4967
5°	4965	4952	4986
10°	4918	4921	4967
15°	4844	4859	4930
20°	4730	4772	4858
25°	4583	4646	4748
30°	4401	4478	4595
35°	4185	4253	4385
40°	3914	3979	4109
45°	3623	3680	3787
50°	3300	3353	3439
55°	2980	2989	3076
60°	2673	2682	2746
65°	2436	2385	2441
70°	2317	2187	2226
75°	2332	2110	2120
80°	2421	2132	2115
85°	2652	2254	2137



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.4	4.1
10°-20°	492.6	11.7
20°-30°	721.0	17.1
30°-40°	810.6	19.3
40°-50°	747.6	17.8
50°-60°	576.2	13.7
60°-70°	380.2	9.0
70°-80°	221.3	5.3
80°-90°	80.6	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°	1388.0	33.0
0°-40°	2198.6	52.3
0°-60°	3522.4	83.8
0°-90°	4204.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4204.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1846	1846	1846	1846	1846	
5°	1838	1834	1833	1842	1846	174
15°	1739	1739	1744	1760	1770	489
25°	1544	1551	1565	1586	1599	710
35°	1274	1280	1295	1321	1335	794
45°	952	953	967	986	995	733
55°	635	634	637	648	656	570
65°	382	380	374	378	383	384
75°	224	215	203	199	204	236
85°	86	85	73	67	69	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1845.7	1845.7	1845.7	1845.7	1845.7
2.5°	1845.7	1841.8	1840.8	1847.8	1851.6
5°	1838.0	1834.1	1833.1	1841.8	1845.7
7.5°	1822.5	1819.4	1820.4	1830.2	1835.1
10°	1800.0	1799.0	1801.0	1811.6	1817.6
12.5°	1773.7	1772.7	1776.5	1788.1	1796.1
15°	1738.6	1738.6	1744.3	1760.0	1769.8
17.5°	1696.5	1699.4	1708.1	1723.9	1734.5
20°	1651.6	1654.7	1666.3	1683.9	1696.5
22.5°	1601.8	1605.9	1617.5	1639.0	1649.8
25°	1543.5	1551.2	1564.9	1586.3	1599.0
27.5°	1482.8	1491.6	1504.2	1530.8	1542.4
30°	1416.5	1422.4	1441.0	1465.3	1478.9
32.5°	1346.3	1352.2	1367.7	1397.1	1408.7
35°	1274.0	1279.9	1294.6	1321.0	1334.7
37.5°	1196.1	1201.0	1218.5	1238.9	1253.6
40°	1114.2	1120.9	1132.6	1157.1	1169.7
42.5°	1034.2	1037.1	1049.7	1074.2	1083.8
45°	952.1	953.2	966.9	986.2	995.0
47.5°	867.2	869.3	885.8	897.4	906.2
50°	788.2	789.3	800.9	811.7	821.5
52.5°	709.3	709.3	715.2	726.8	739.5
55°	635.2	634.2	637.0	647.8	655.6
57.5°	565.0	564.0	567.8	574.5	580.5
60°	496.6	494.5	498.4	502.5	510.3
62.5°	436.2	438.0	433.1	439.0	445.0
65°	382.5	380.4	374.5	377.6	383.3
67.5°	336.6	333.7	323.9	325.7	332.7
70°	294.5	288.8	278.0	278.0	282.9
72.5°	256.6	250.6	236.9	238.0	240.0
75°	224.3	214.7	202.9	199.0	203.9
77.5°	189.2	181.4	170.6	167.8	169.8
80°	156.2	150.2	137.6	133.7	136.5
82.5°	123.9	119.0	104.3	101.4	102.5
85°	85.9	84.9	73.0	67.4	69.2
87.5°	45.9	46.7	37.9	34.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)