

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: P475939

Luminaire Tested: **22GR-LD5-85-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475939  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-85-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: 8246.8 lumens  
Efficiency: N/A  
Efficacy: 127.3 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

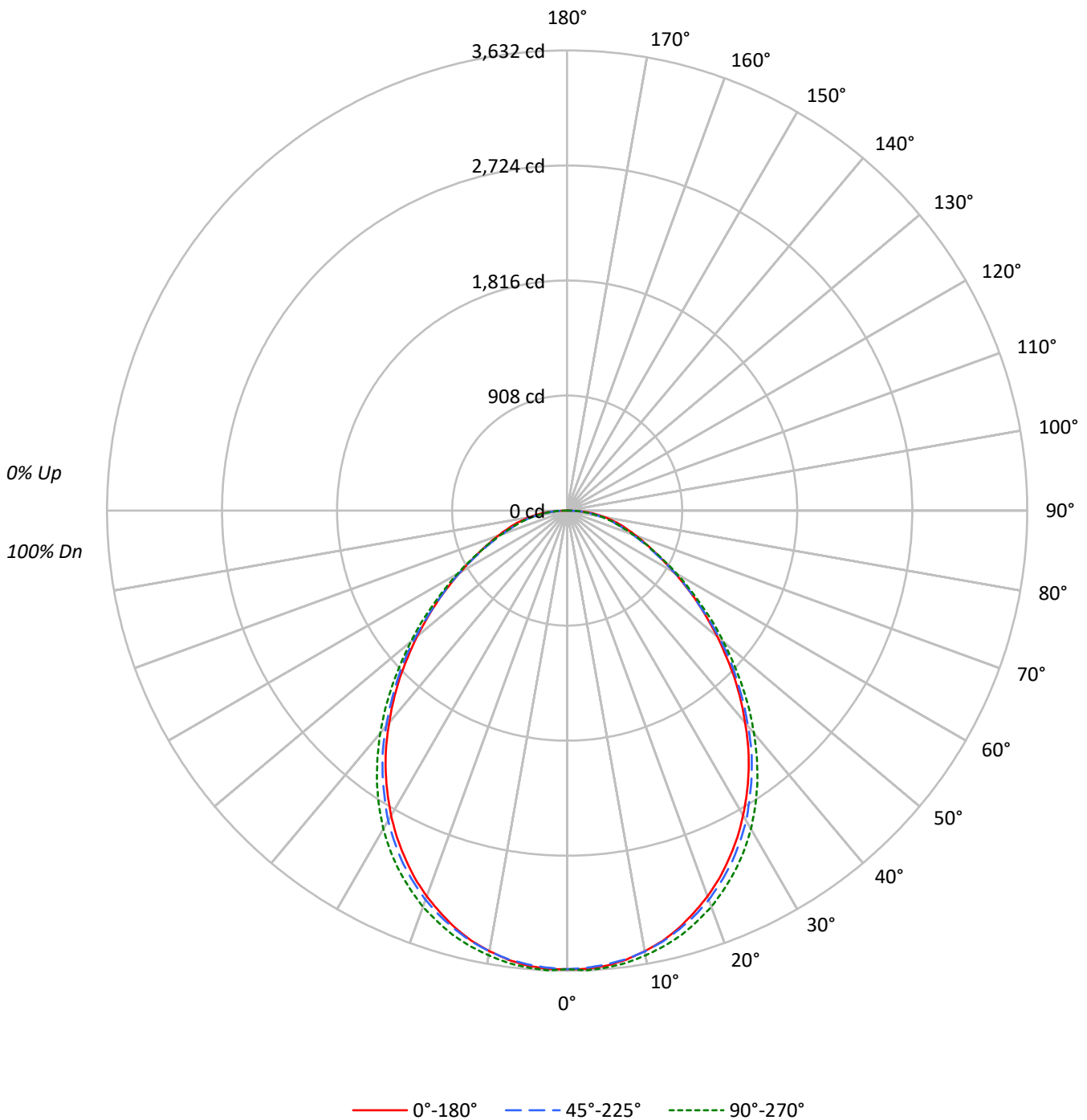
Input Watts (W): 64.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9742	9742	9742
5°	9738	9712	9779
10°	9647	9653	9741
15°	9500	9531	9671
20°	9277	9360	9529
25°	8989	9114	9312
30°	8633	8782	9014
35°	8209	8342	8600
40°	7677	7803	8059
45°	7107	7217	7427
50°	6473	6576	6746
55°	5845	5862	6033
60°	5242	5261	5387
65°	4777	4677	4787
70°	4544	4290	4366
75°	4574	4137	4158
80°	4747	4181	4150
85°	5206	4424	4190



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.0	4.1
10°-20°	966.2	11.7
20°-30°	1414.2	17.1
30°-40°	1590.0	19.3
40°-50°	1466.3	17.8
50°-60°	1130.2	13.7
60°-70°	745.7	9.0
70°-80°	434.0	5.3
80°-90°	158.1	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°	2722.5	33.0
0°-40°	4312.5	52.3
0°-60°	6909.0	83.8
0°-90°	8246.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8246.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3620	3620	3620	3620	3620	
5°	3605	3597	3595	3613	3620	342
15°	3410	3410	3421	3452	3471	960
25°	3027	3043	3069	3111	3136	1392
35°	2499	2510	2539	2591	2618	1558
45°	1868	1870	1896	1934	1952	1438
55°	1246	1244	1249	1271	1286	1118
65°	750	746	735	741	752	752
75°	440	421	398	390	400	463
85°	169	167	143	132	136	178
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3620.2	3620.2	3620.2	3620.2	3620.2
2.5°	3620.2	3612.6	3610.6	3624.3	3631.9
5°	3605.0	3597.4	3595.4	3612.6	3620.2
7.5°	3574.7	3568.6	3570.6	3589.9	3599.5
10°	3530.6	3528.6	3532.6	3553.4	3565.0
12.5°	3479.0	3477.0	3484.6	3507.3	3523.0
15°	3410.1	3410.1	3421.3	3452.2	3471.4
17.5°	3327.6	3333.2	3350.4	3381.3	3402.0
20°	3239.5	3245.6	3268.4	3302.8	3327.6
22.5°	3141.8	3149.9	3172.7	3214.7	3236.0
25°	3027.4	3042.6	3069.4	3111.4	3136.2
27.5°	2908.4	2925.6	2950.5	3002.6	3025.4
30°	2778.3	2790.0	2826.4	2874.0	2900.8
32.5°	2640.6	2652.3	2682.6	2740.4	2763.1
35°	2498.9	2510.5	2539.4	2591.0	2617.8
37.5°	2346.0	2355.6	2390.0	2430.0	2458.9
40°	2185.5	2198.7	2221.4	2269.5	2294.3
42.5°	2028.6	2034.1	2058.9	2107.0	2125.8
45°	1867.6	1869.6	1896.4	1934.4	1951.6
47.5°	1701.0	1705.1	1737.5	1760.2	1777.5
50°	1546.1	1548.1	1570.9	1592.2	1611.4
52.5°	1391.2	1391.2	1402.8	1425.6	1450.4
55°	1245.9	1243.9	1249.4	1270.7	1285.9
57.5°	1108.2	1106.2	1113.8	1126.9	1138.6
60°	974.0	970.0	977.6	985.7	1000.9
62.5°	855.6	859.1	849.5	861.1	872.8
65°	750.3	746.2	734.6	740.7	751.8
67.5°	660.2	654.6	635.3	638.9	652.6
70°	577.6	566.5	545.2	545.2	554.9
72.5°	503.2	491.6	464.7	466.8	470.8
75°	439.9	421.2	397.9	390.3	399.9
77.5°	371.1	355.9	334.6	329.1	333.1
80°	306.3	294.6	269.8	262.2	267.8
82.5°	243.0	233.4	204.5	199.0	201.0
85°	168.6	166.6	143.3	132.1	135.7
87.5°	90.1	91.6	74.4	66.8	70.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)