

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: P475963

Luminaire Tested: **22GR-LD5-85-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475963  
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-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: 8708.3 lumens  
Efficiency: N/A  
Efficacy: 134.4 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

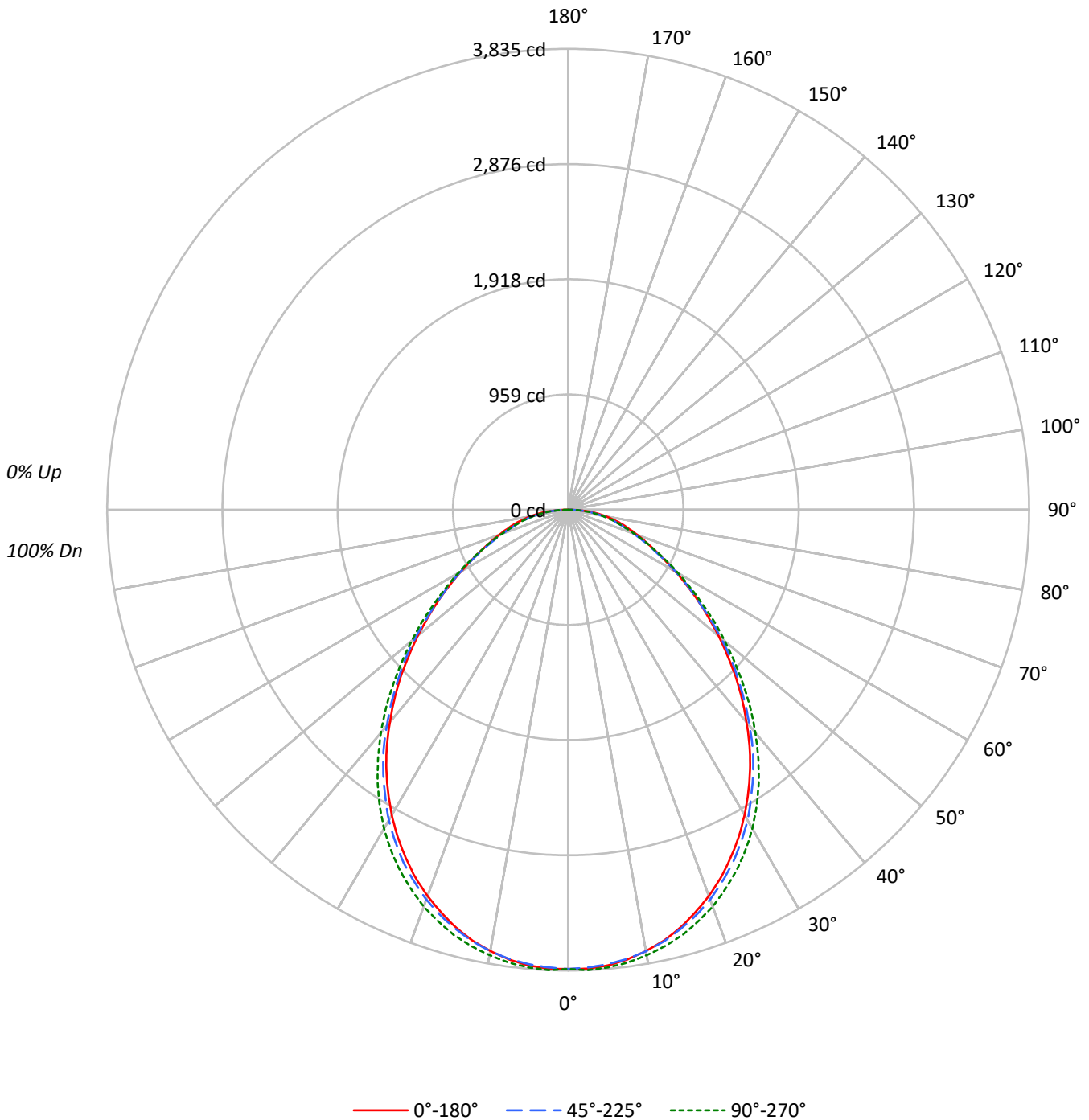
Input Watts (W): 64.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10287	10287	10287
5°	10283	10256	10326
10°	10187	10193	10286
15°	10032	10065	10212
20°	9796	9883	10062
25°	9492	9624	9833
30°	9116	9274	9518
35°	8668	8809	9081
40°	8107	8240	8511
45°	7505	7621	7843
50°	6835	6944	7124
55°	6172	6190	6370
60°	5535	5556	5688
65°	5045	4939	5055
70°	4799	4530	4610
75°	4831	4369	4391
80°	5012	4415	4382
85°	5496	4671	4424



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.2	4.1
10°-20°	1020.3	11.7
20°-30°	1493.4	17.1
30°-40°	1679.0	19.3
40°-50°	1548.4	17.8
50°-60°	1193.4	13.7
60°-70°	787.4	9.0
70°-80°	458.3	5.3
80°-90°	166.9	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°	2874.8	33.0
0°-40°	4553.8	52.3
0°-60°	7295.7	83.8
0°-90°	8708.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8708.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3823	3823	3823	3823	3823	
5°	3807	3799	3797	3815	3823	361
15°	3601	3601	3613	3645	3666	1013
25°	3197	3213	3241	3286	3312	1470
35°	2639	2651	2682	2736	2764	1645
45°	1972	1974	2003	2043	2061	1519
55°	1316	1314	1319	1342	1358	1180
65°	792	788	776	782	794	794
75°	465	445	420	412	422	489
85°	178	176	151	140	143	188
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3822.8	3822.8	3822.8	3822.8	3822.8
2.5°	3822.8	3814.8	3812.7	3827.1	3835.1
5°	3806.8	3798.8	3796.6	3814.8	3822.8
7.5°	3774.7	3768.3	3770.4	3790.7	3800.9
10°	3728.2	3726.1	3730.3	3752.2	3764.5
12.5°	3673.7	3671.5	3679.5	3703.6	3720.2
15°	3601.0	3601.0	3612.7	3645.3	3665.6
17.5°	3513.8	3519.7	3537.9	3570.5	3592.4
20°	3420.8	3427.2	3451.3	3487.6	3513.8
22.5°	3317.6	3326.2	3350.2	3394.6	3417.1
25°	3196.8	3212.9	3241.2	3285.6	3311.7
27.5°	3071.2	3089.4	3115.6	3170.6	3194.7
30°	2933.8	2946.1	2984.6	3034.8	3063.2
32.5°	2788.4	2800.7	2832.8	2893.7	2917.8
35°	2638.7	2651.0	2681.5	2736.0	2764.3
37.5°	2477.3	2487.4	2523.8	2566.0	2596.5
40°	2307.8	2321.7	2345.8	2396.5	2422.7
42.5°	2142.1	2148.0	2174.2	2224.9	2244.7
45°	1972.1	1974.2	2002.6	2042.6	2060.8
47.5°	1796.2	1800.5	1834.7	1858.7	1876.9
50°	1632.6	1634.8	1658.8	1681.3	1701.6
52.5°	1469.0	1469.0	1481.3	1505.4	1531.6
55°	1315.6	1313.5	1319.4	1341.8	1357.8
57.5°	1170.2	1168.1	1176.1	1190.0	1202.3
60°	1028.5	1024.3	1032.3	1040.8	1056.9
62.5°	903.4	907.2	897.0	909.3	921.6
65°	792.3	788.0	775.7	782.1	793.9
67.5°	697.1	691.2	670.9	674.6	689.1
70°	610.0	598.2	575.7	575.7	585.9
72.5°	531.4	519.1	490.7	492.9	497.2
75°	464.6	444.8	420.2	412.2	422.3
77.5°	391.9	375.8	353.4	347.5	351.8
80°	323.4	311.1	284.9	276.9	282.8
82.5°	256.6	246.4	216.0	210.1	212.2
85°	178.0	175.9	151.3	139.5	143.3
87.5°	95.2	96.8	78.6	70.6	74.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)