

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: P475964

Luminaire Tested: **22GR-LD5-90-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475964  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-90-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: 9230.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 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

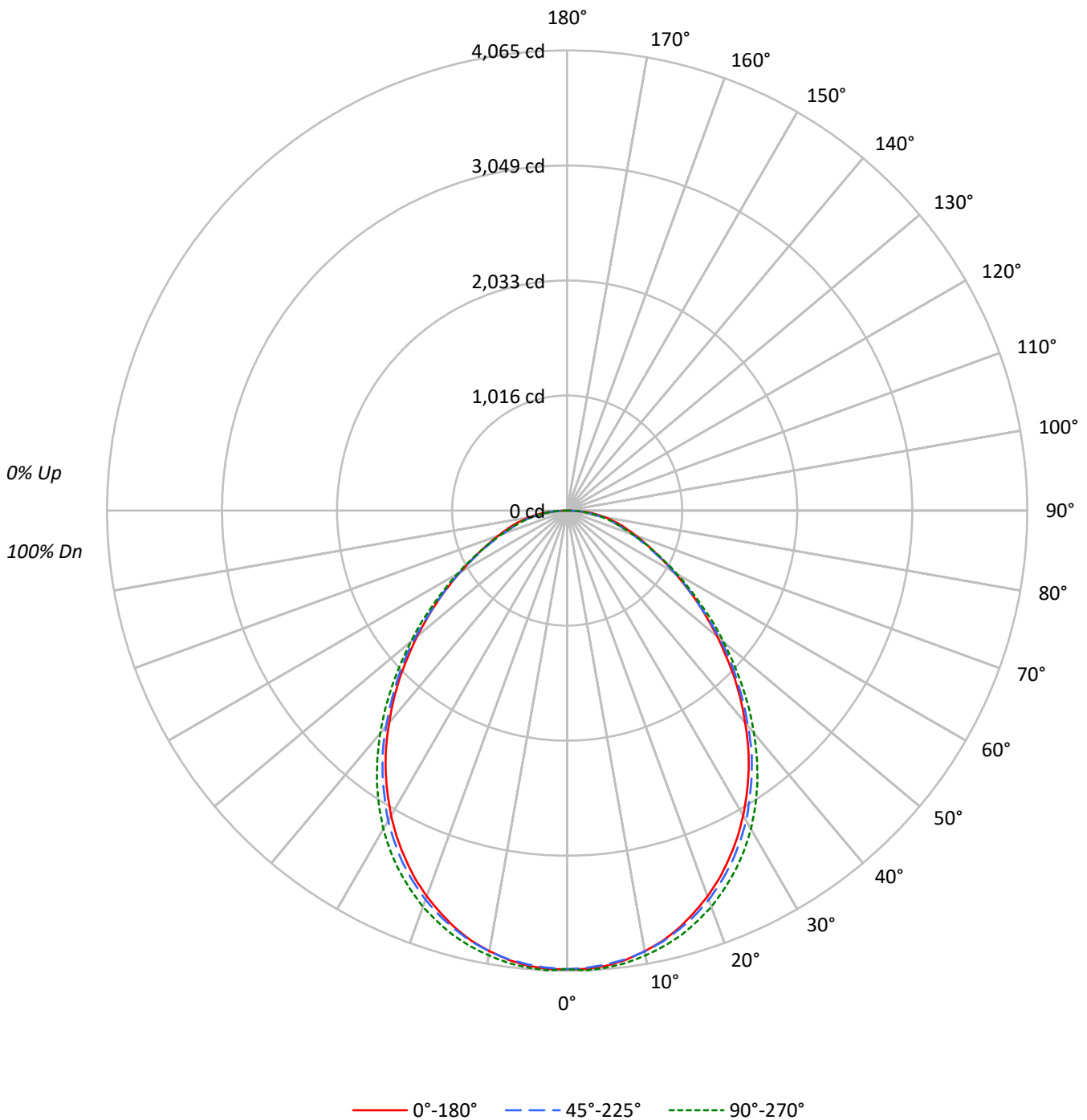
Input Watts (W): 69.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10903	10903	10903
5°	10899	10870	10945
10°	10797	10804	10903
15°	10633	10668	10824
20°	10383	10475	10665
25°	10060	10200	10422
30°	9662	9830	10088
35°	9188	9337	9625
40°	8593	8734	9021
45°	7955	8077	8313
50°	7244	7361	7550
55°	6542	6561	6752
60°	5867	5888	6029
65°	5347	5235	5358
70°	5087	4801	4886
75°	5120	4631	4654
80°	5312	4680	4644
85°	5826	4952	4690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.8	4.1
10°-20°	1081.4	11.7
20°-30°	1582.8	17.1
30°-40°	1779.6	19.3
40°-50°	1641.1	17.8
50°-60°	1264.9	13.7
60°-70°	834.6	9.0
70°-80°	485.7	5.3
80°-90°	176.9	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°	3047.1	33.0
0°-40°	4826.6	52.3
0°-60°	7732.7	83.8
0°-90°	9230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4052	4052	4052	4052	4052	
5°	4035	4026	4024	4043	4052	382
15°	3817	3817	3829	3864	3885	1074
25°	3388	3405	3435	3482	3510	1558
35°	2797	2810	2842	2900	2930	1744
45°	2090	2092	2122	2165	2184	1610
55°	1394	1392	1398	1422	1439	1251
65°	840	835	822	829	841	842
75°	492	471	445	437	448	519
85°	189	186	160	148	152	199
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4051.8	4051.8	4051.8	4051.8	4051.8
2.5°	4051.8	4043.3	4041.1	4056.4	4064.9
5°	4034.8	4026.3	4024.1	4043.3	4051.8
7.5°	4000.8	3994.0	3996.3	4017.8	4028.6
10°	3951.5	3949.3	3953.8	3977.0	3990.1
12.5°	3893.8	3891.5	3900.0	3925.5	3943.0
15°	3816.7	3816.7	3829.2	3863.7	3885.3
17.5°	3724.3	3730.6	3749.8	3784.4	3807.6
20°	3625.7	3632.5	3658.0	3696.6	3724.3
22.5°	3516.4	3525.5	3551.0	3598.0	3621.8
25°	3388.3	3405.3	3435.4	3482.4	3510.2
27.5°	3255.2	3274.4	3302.2	3360.6	3386.1
30°	3109.6	3122.6	3163.4	3216.7	3246.7
32.5°	2955.4	2968.5	3002.5	3067.1	3092.6
35°	2796.8	2809.8	2842.1	2899.9	2929.9
37.5°	2625.7	2636.4	2675.0	2719.7	2752.0
40°	2446.1	2460.8	2486.3	2540.1	2567.9
42.5°	2270.4	2276.6	2304.4	2358.2	2379.2
45°	2090.2	2092.5	2122.5	2165.0	2184.3
47.5°	1903.8	1908.3	1944.6	1970.1	1989.4
50°	1730.4	1732.7	1758.2	1782.0	1803.5
52.5°	1557.0	1557.0	1570.1	1595.6	1623.3
55°	1394.4	1392.2	1398.4	1422.2	1439.2
57.5°	1240.3	1238.0	1246.5	1261.3	1274.3
60°	1090.2	1085.6	1094.1	1103.2	1120.2
62.5°	957.6	961.5	950.8	963.8	976.8
65°	839.7	835.2	822.2	829.0	841.4
67.5°	738.9	732.6	711.1	715.1	730.4
70°	646.5	634.0	610.2	610.2	621.0
72.5°	563.2	550.2	520.1	522.4	526.9
75°	492.4	471.4	445.4	436.9	447.6
77.5°	415.3	398.3	374.5	368.3	372.8
80°	342.8	329.8	302.0	293.5	299.7
82.5°	272.0	261.2	228.9	222.7	224.9
85°	188.7	186.4	160.4	147.9	151.9
87.5°	100.9	102.6	83.3	74.8	79.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)