

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: P475966

Luminaire Tested: **22GR-LD5-24-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475966  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-F125-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2481.6 lumens  
Efficiency: N/A  
Efficacy: 138.6 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

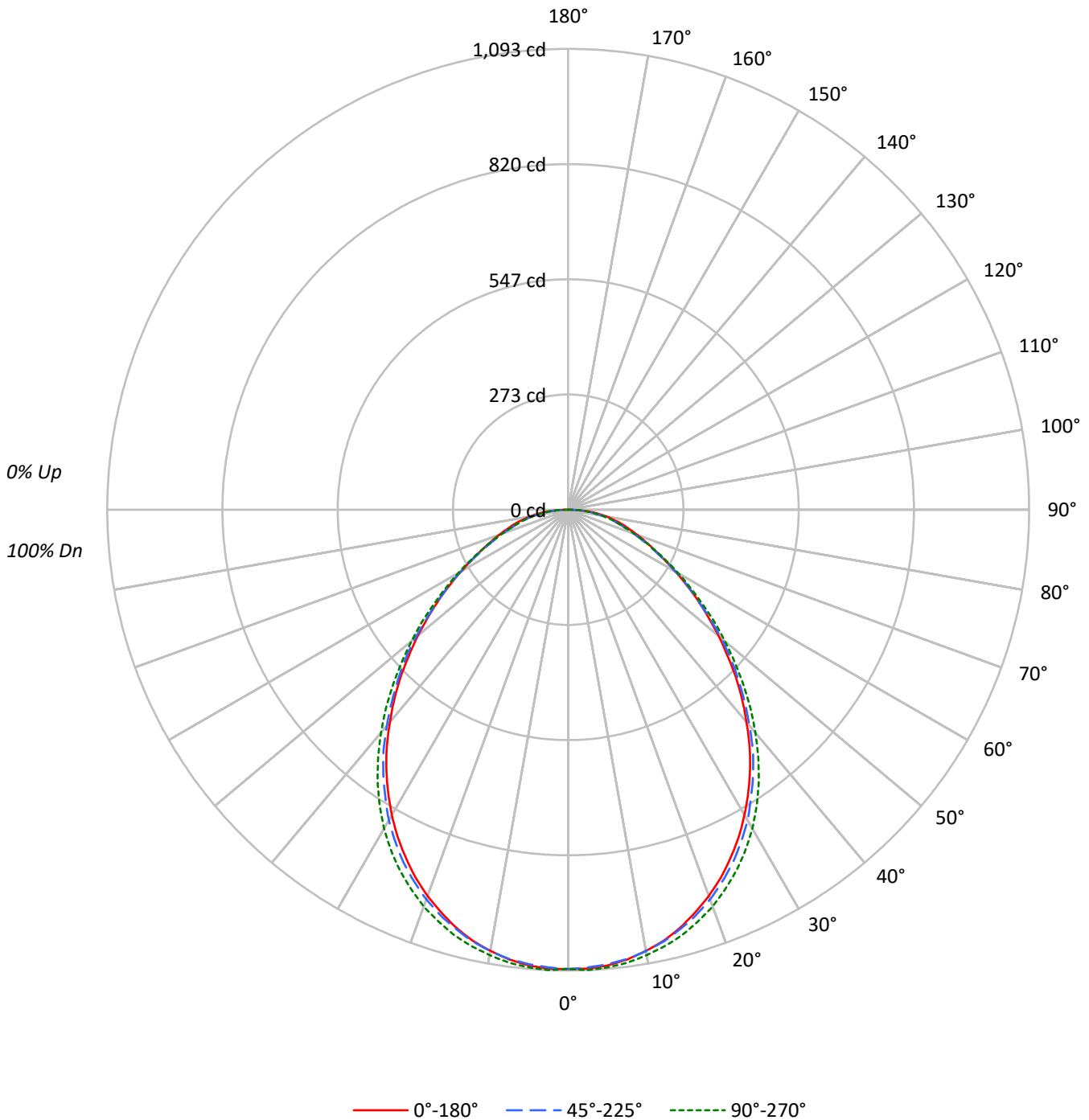
Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2932	2932	2932
5°	2930	2922	2943
10°	2903	2905	2931
15°	2859	2868	2910
20°	2792	2816	2867
25°	2705	2743	2802
30°	2598	2643	2712
35°	2470	2510	2588
40°	2310	2348	2425
45°	2139	2172	2235
50°	1948	1979	2030
55°	1759	1764	1816
60°	1577	1583	1621
65°	1438	1407	1440
70°	1367	1291	1314
75°	1377	1245	1252
80°	1429	1258	1249
85°	1565	1331	1260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	4.1
10°-20°	290.8	11.7
20°-30°	425.6	17.1
30°-40°	478.5	19.3
40°-50°	441.3	17.8
50°-60°	340.1	13.7
60°-70°	224.4	9.0
70°-80°	130.6	5.3
80°-90°	47.6	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°	819.3	33.0
0°-40°	1297.7	52.3
0°-60°	2079.1	83.8
0°-90°	2481.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2481.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1085	1082	1082	1087	1089	103
15°	1026	1026	1030	1039	1045	289
25°	911	916	924	936	944	419
35°	752	756	764	780	788	469
45°	562	563	571	582	587	433
55°	375	374	376	382	387	336
65°	226	225	221	223	226	226
75°	132	127	120	118	120	139
85°	51	50	43	40	41	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1089.4	1089.4	1089.4	1089.4	1089.4
2.5°	1089.4	1087.1	1086.5	1090.6	1092.9
5°	1084.8	1082.5	1081.9	1087.1	1089.4
7.5°	1075.7	1073.9	1074.5	1080.3	1083.2
10°	1062.4	1061.8	1063.0	1069.3	1072.8
12.5°	1046.9	1046.3	1048.6	1055.4	1060.2
15°	1026.2	1026.2	1029.5	1038.8	1044.6
17.5°	1001.3	1003.0	1008.2	1017.5	1023.7
20°	974.8	976.7	983.5	993.9	1001.3
22.5°	945.4	947.9	954.7	967.4	973.8
25°	911.0	915.6	923.7	936.3	943.8
27.5°	875.2	880.4	887.9	903.5	910.4
30°	836.1	839.6	850.5	864.8	872.9
32.5°	794.6	798.1	807.3	824.6	831.5
35°	752.0	755.5	764.2	779.7	787.8
37.5°	706.0	708.8	719.2	731.2	739.9
40°	657.7	661.6	668.5	683.0	690.4
42.5°	610.4	612.1	619.6	634.0	639.7
45°	562.0	562.6	570.7	582.1	587.3
47.5°	511.9	513.1	522.8	529.7	534.9
50°	465.3	465.9	472.7	479.1	484.9
52.5°	418.6	418.6	422.1	429.0	436.5
55°	374.9	374.3	376.0	382.4	387.0
57.5°	333.5	332.9	335.2	339.1	342.6
60°	293.1	291.9	294.2	296.6	301.2
62.5°	257.5	258.5	255.6	259.1	262.6
65°	225.8	224.6	221.0	222.9	226.2
67.5°	198.7	197.0	191.2	192.3	196.4
70°	173.8	170.5	164.1	164.1	167.0
72.5°	151.4	147.9	139.9	140.5	141.7
75°	132.4	126.7	119.7	117.5	120.4
77.5°	111.7	107.1	100.7	99.0	100.2
80°	92.2	88.7	81.2	78.9	80.6
82.5°	73.1	70.2	61.5	59.9	60.5
85°	50.7	50.1	43.1	39.8	40.8
87.5°	27.1	27.6	22.4	20.1	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)