

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: P475965

Luminaire Tested: **22GR-LD5-20-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475965  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-20-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: 2085.9 lumens  
Efficiency: N/A  
Efficacy: 138.1 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

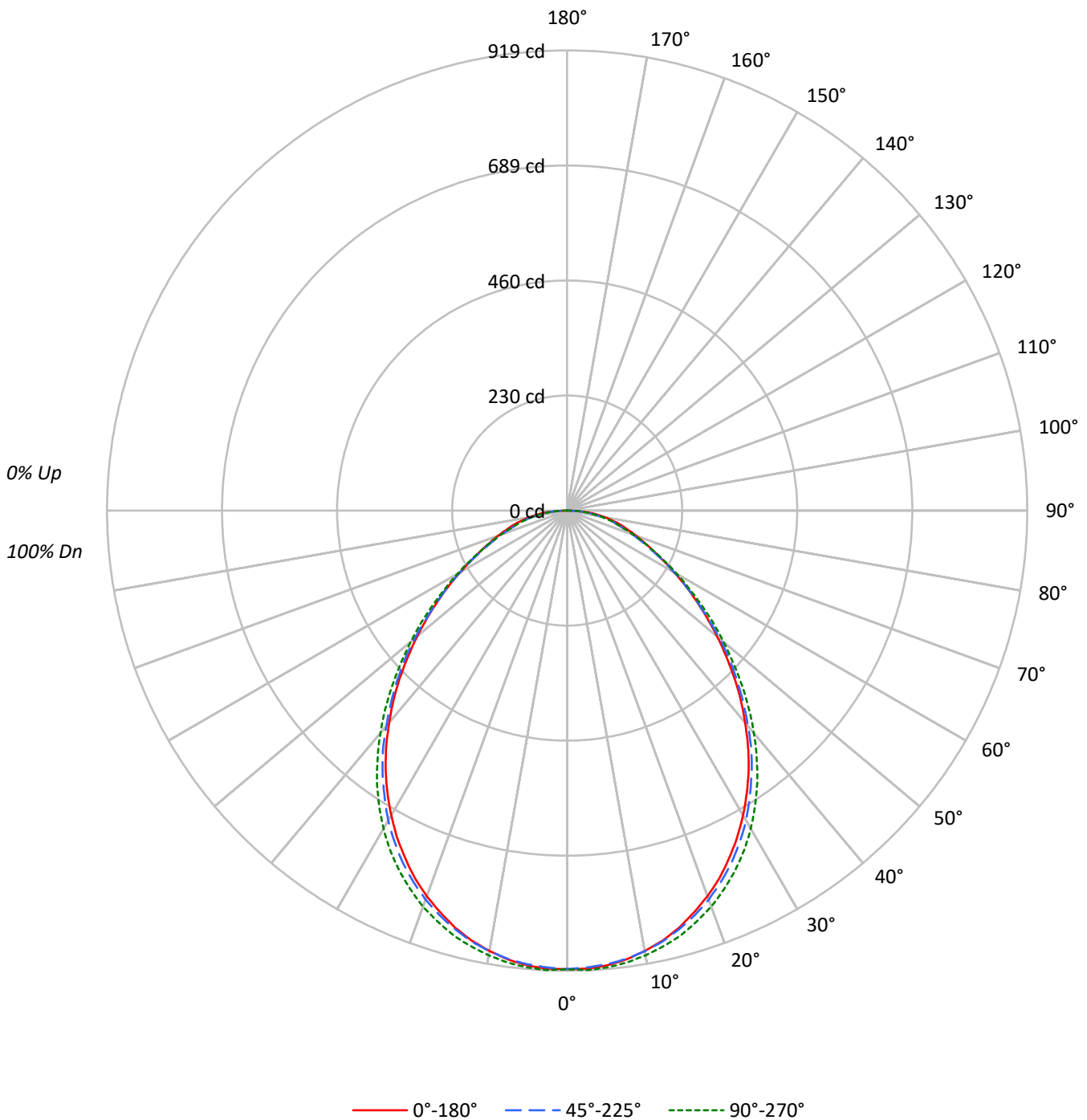
Input Watts (W): 15.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2464	2464	2464
5°	2463	2457	2474
10°	2440	2441	2464
15°	2403	2411	2446
20°	2346	2367	2410
25°	2273	2305	2355
30°	2183	2221	2280
35°	2076	2110	2175
40°	1942	1974	2038
45°	1798	1826	1878
50°	1637	1663	1706
55°	1478	1483	1526
60°	1326	1331	1363
65°	1209	1183	1211
70°	1149	1085	1104
75°	1157	1046	1052
80°	1201	1057	1049
85°	1315	1118	1059



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	4.1
10°-20°	244.4	11.7
20°-30°	357.7	17.1
30°-40°	402.2	19.3
40°-50°	370.9	17.8
50°-60°	285.9	13.7
60°-70°	188.6	9.0
70°-80°	109.8	5.3
80°-90°	40.0	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°	688.6	33.0
0°-40°	1090.8	52.3
0°-60°	1747.5	83.8
0°-90°	2085.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2085.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	912	910	909	914	916	86
15°	862	862	865	873	878	243
25°	766	770	776	787	793	352
35°	632	635	642	655	662	394
45°	472	473	480	489	494	364
55°	315	315	316	321	325	283
65°	190	189	186	187	190	190
75°	111	106	101	99	101	117
85°	43	42	36	33	34	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	915.7	915.7	915.7	915.7	915.7
2.5°	915.7	913.7	913.2	916.7	918.6
5°	911.8	909.9	909.4	913.7	915.7
7.5°	904.1	902.6	903.1	908.0	910.4
10°	893.0	892.5	893.5	898.8	901.7
12.5°	879.9	879.4	881.4	887.1	891.1
15°	862.5	862.5	865.3	873.2	878.0
17.5°	841.7	843.1	847.4	855.2	860.5
20°	819.4	820.9	826.7	835.4	841.7
22.5°	794.7	796.7	802.5	813.1	818.5
25°	765.7	769.6	776.4	787.0	793.3
27.5°	735.6	740.0	746.3	759.5	765.2
30°	702.7	705.7	714.9	726.9	733.7
32.5°	667.9	670.8	678.5	693.1	698.9
35°	632.0	635.0	642.3	655.3	662.1
37.5°	593.4	595.8	604.5	614.6	621.9
40°	552.8	556.1	561.9	574.0	580.3
42.5°	513.1	514.5	520.8	532.9	537.7
45°	472.4	472.9	479.7	489.3	493.6
47.5°	430.2	431.3	439.5	445.2	449.6
50°	391.1	391.6	397.3	402.7	407.6
52.5°	351.9	351.9	354.8	360.6	366.9
55°	315.1	314.6	316.0	321.4	325.2
57.5°	280.3	279.8	281.7	285.0	288.0
60°	246.4	245.3	247.3	249.3	253.2
62.5°	216.4	217.3	214.9	217.8	220.8
65°	189.8	188.7	185.8	187.3	190.2
67.5°	167.0	165.6	160.7	161.6	165.1
70°	146.1	143.3	137.9	137.9	140.3
72.5°	127.3	124.3	117.5	118.1	119.1
75°	111.3	106.5	100.6	98.7	101.2
77.5°	93.9	90.0	84.6	83.2	84.3
80°	77.5	74.5	68.2	66.3	67.7
82.5°	61.5	59.0	51.7	50.3	50.8
85°	42.6	42.1	36.2	33.4	34.3
87.5°	22.8	23.2	18.8	16.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)