

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: P476234

Luminaire Tested: **14GR-LD5-28-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476234  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-28-F125-UNV-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2879.6 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

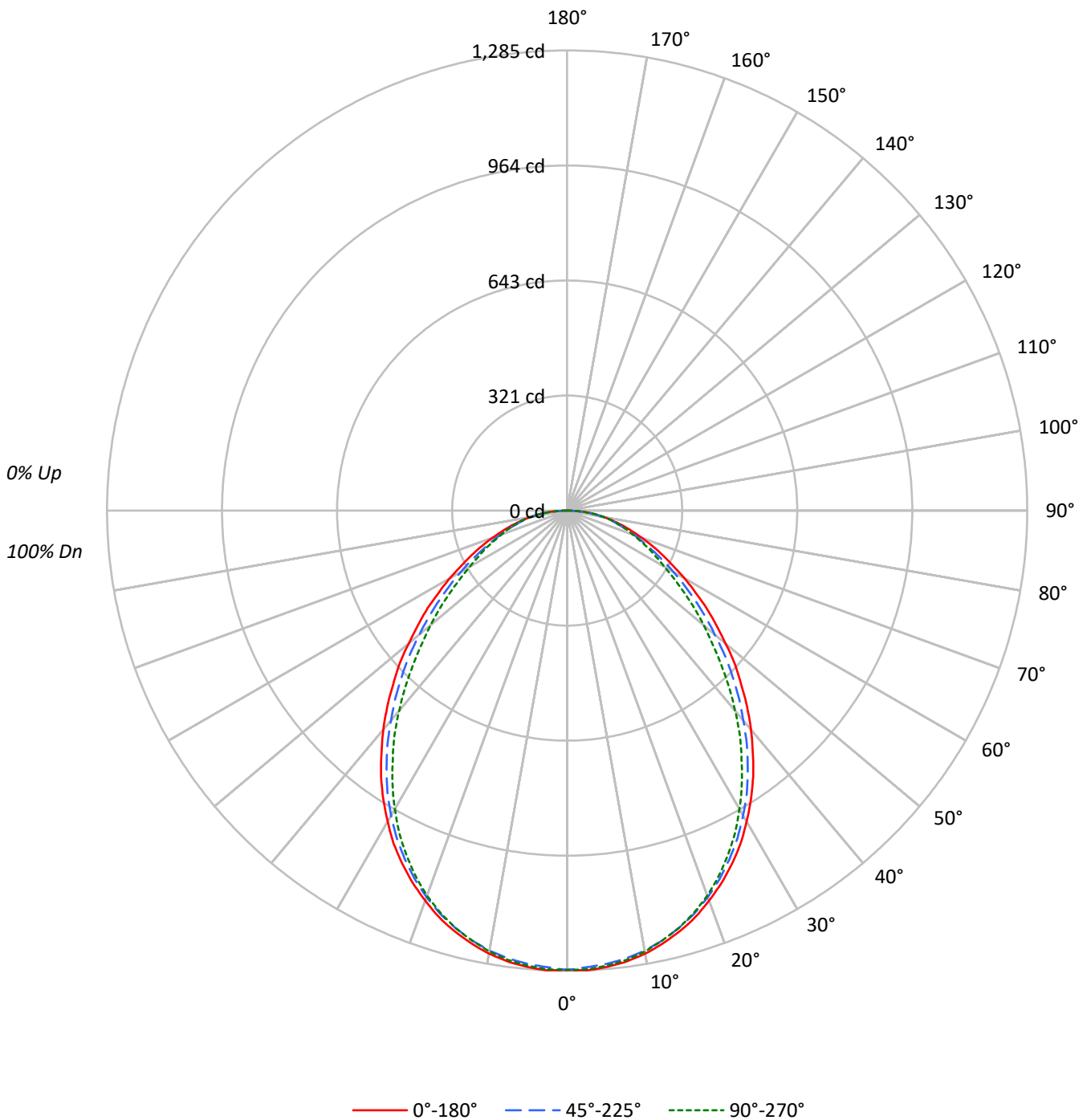
Input Watts (W): 23.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	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	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	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°	3451	3451	3451
5°	3456	3433	3445
10°	3433	3409	3416
15°	3388	3360	3360
20°	3320	3288	3277
25°	3233	3186	3153
30°	3115	3054	2991
35°	2976	2889	2789
40°	2807	2689	2564
45°	2618	2482	2314
50°	2418	2251	2082
55°	2231	2040	1873
60°	2035	1844	1691
65°	1871	1673	1598
70°	1736	1565	1534
75°	1657	1520	1548
80°	1623	1531	1613
85°	1667	1504	1606



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	4.2
10°-20°	340.6	11.8
20°-30°	494.1	17.2
30°-40°	548.6	19.1
40°-50°	501.9	17.4
50°-60°	391.0	13.6
60°-70°	267.1	9.3
70°-80°	159.6	5.5
80°-90°	55.5	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°	955.8	33.2
0°-40°	1504.4	52.2
0°-60°	2397.4	83.3
0°-90°	2879.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1279	1277	1271	1277	1275	121
15°	1216	1213	1206	1211	1206	342
25°	1089	1084	1073	1070	1062	501
35°	906	898	880	861	849	565
45°	688	678	652	622	608	531
55°	476	461	435	409	399	425
65°	294	283	263	251	251	293
75°	159	153	146	149	149	169
85°	54	51	49	53	52	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1282.6	1282.6	1282.6	1282.6	1282.6
2.5°	1285.2	1282.0	1276.0	1282.6	1282.0
5°	1279.3	1276.7	1270.8	1277.3	1275.4
7.5°	1270.1	1267.5	1260.9	1268.1	1265.5
10°	1256.3	1253.0	1247.7	1253.0	1250.3
12.5°	1237.8	1234.5	1229.3	1233.9	1229.3
15°	1216.1	1212.8	1206.2	1210.8	1206.2
17.5°	1190.4	1185.8	1180.5	1181.2	1177.2
20°	1159.4	1154.8	1148.2	1148.2	1144.3
22.5°	1125.8	1121.2	1113.3	1110.7	1105.4
25°	1088.9	1084.3	1073.1	1069.8	1061.9
27.5°	1048.8	1041.5	1030.3	1023.1	1015.2
30°	1002.6	996.7	982.9	972.3	962.5
32.5°	955.9	949.9	934.1	918.3	907.8
35°	905.8	897.9	879.5	861.0	849.1
37.5°	851.8	845.2	824.1	801.7	792.5
40°	799.1	790.5	765.5	742.4	729.9
42.5°	743.7	734.5	709.5	683.1	669.3
45°	687.8	678.5	652.2	621.9	608.0
47.5°	635.7	623.9	596.2	565.9	549.4
50°	577.7	567.9	537.6	508.6	497.4
52.5°	523.7	514.5	486.2	457.8	447.3
55°	475.6	461.1	434.8	409.1	399.2
57.5°	424.2	412.4	387.4	363.0	353.1
60°	378.1	368.9	342.6	321.5	314.2
62.5°	332.7	325.4	301.1	285.2	280.6
65°	293.8	282.6	262.8	251.0	251.0
67.5°	256.9	245.7	228.6	224.0	220.0
70°	220.7	212.1	198.9	195.0	195.0
72.5°	188.4	181.2	171.9	170.6	173.3
75°	159.4	152.8	146.2	148.9	148.9
77.5°	130.4	125.8	123.2	124.5	127.1
80°	104.7	101.4	98.8	102.1	104.1
82.5°	80.4	77.1	75.1	79.7	79.1
85°	54.0	51.4	48.7	53.4	52.0
87.5°	27.0	25.7	21.1	23.7	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)