

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: P476232

Luminaire Tested: **14GR-LD5-20-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476232  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-20-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**

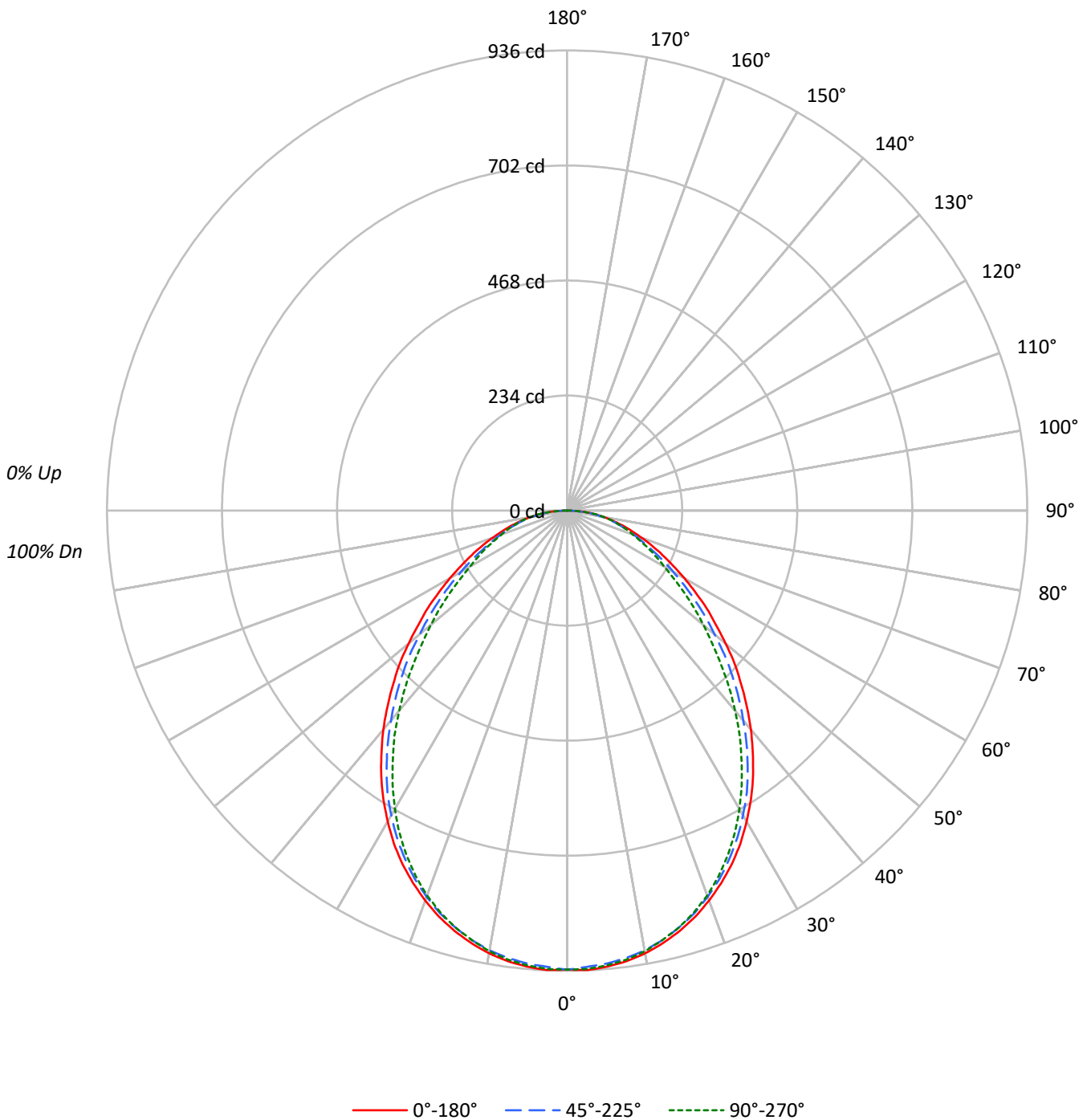
Lumens per Lamp: N/A  
Luminaire Lumens: 2096.2 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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°	2513	2513	2513
5°	2516	2499	2508
10°	2499	2482	2487
15°	2466	2446	2446
20°	2417	2394	2385
25°	2354	2320	2295
30°	2268	2223	2177
35°	2166	2103	2031
40°	2043	1957	1866
45°	1905	1807	1684
50°	1761	1638	1516
55°	1624	1485	1363
60°	1482	1342	1231
65°	1362	1218	1163
70°	1264	1139	1116
75°	1207	1107	1127
80°	1181	1114	1175
85°	1213	1096	1170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	4.2
10°-20°	248.0	11.8
20°-30°	359.7	17.2
30°-40°	399.4	19.1
40°-50°	365.4	17.4
50°-60°	284.6	13.6
60°-70°	194.5	9.3
70°-80°	116.2	5.5
80°-90°	40.4	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
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0°-30°	695.8	33.2
0°-40°	1095.1	52.2
0°-60°	1745.2	83.3
0°-90°	2096.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	931	929	925	930	928	88
15°	885	883	878	881	878	249
25°	793	789	781	779	773	364
35°	659	654	640	627	618	411
45°	501	494	475	453	443	387
55°	346	336	316	298	291	309
65°	214	206	191	183	183	213
75°	116	111	106	108	108	123
85°	39	37	36	39	38	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	933.7	933.7	933.7	933.7	933.7
2.5°	935.6	933.2	928.9	933.7	933.2
5°	931.3	929.4	925.0	929.8	928.4
7.5°	924.6	922.6	917.9	923.1	921.2
10°	914.5	912.1	908.3	912.1	910.2
12.5°	901.1	898.7	894.8	898.2	894.8
15°	885.2	882.8	878.1	881.4	878.1
17.5°	866.5	863.2	859.3	859.8	857.0
20°	844.0	840.6	835.9	835.9	833.0
22.5°	819.5	816.2	810.4	808.5	804.7
25°	792.7	789.3	781.2	778.8	773.0
27.5°	763.4	758.2	750.0	744.7	739.0
30°	729.9	725.6	715.5	707.8	700.6
32.5°	695.8	691.5	680.0	668.5	660.8
35°	659.4	653.6	640.2	626.8	618.1
37.5°	620.1	615.3	599.9	583.6	576.9
40°	581.7	575.5	557.2	540.4	531.3
42.5°	541.4	534.7	516.5	497.3	487.2
45°	500.6	493.9	474.8	452.7	442.6
47.5°	462.8	454.1	434.0	411.9	399.9
50°	420.6	413.4	391.3	370.2	362.1
52.5°	381.2	374.5	353.9	333.3	325.6
55°	346.2	335.7	316.5	297.8	290.6
57.5°	308.8	300.2	282.0	264.2	257.0
60°	275.3	268.5	249.4	234.0	228.7
62.5°	242.2	236.9	219.2	207.6	204.3
65°	213.9	205.7	191.3	182.7	182.7
67.5°	187.0	178.9	166.4	163.0	160.2
70°	160.6	154.4	144.8	141.9	141.9
72.5°	137.2	131.9	125.2	124.2	126.1
75°	116.1	111.3	106.5	108.4	108.4
77.5°	95.0	91.6	89.7	90.6	92.6
80°	76.2	73.9	71.9	74.3	75.8
82.5°	58.5	56.1	54.7	58.0	57.5
85°	39.3	37.4	35.5	38.8	37.9
87.5°	19.7	18.7	15.3	17.3	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)