

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: P476214

Luminaire Tested: **14GR-LD5-20-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476214  
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-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

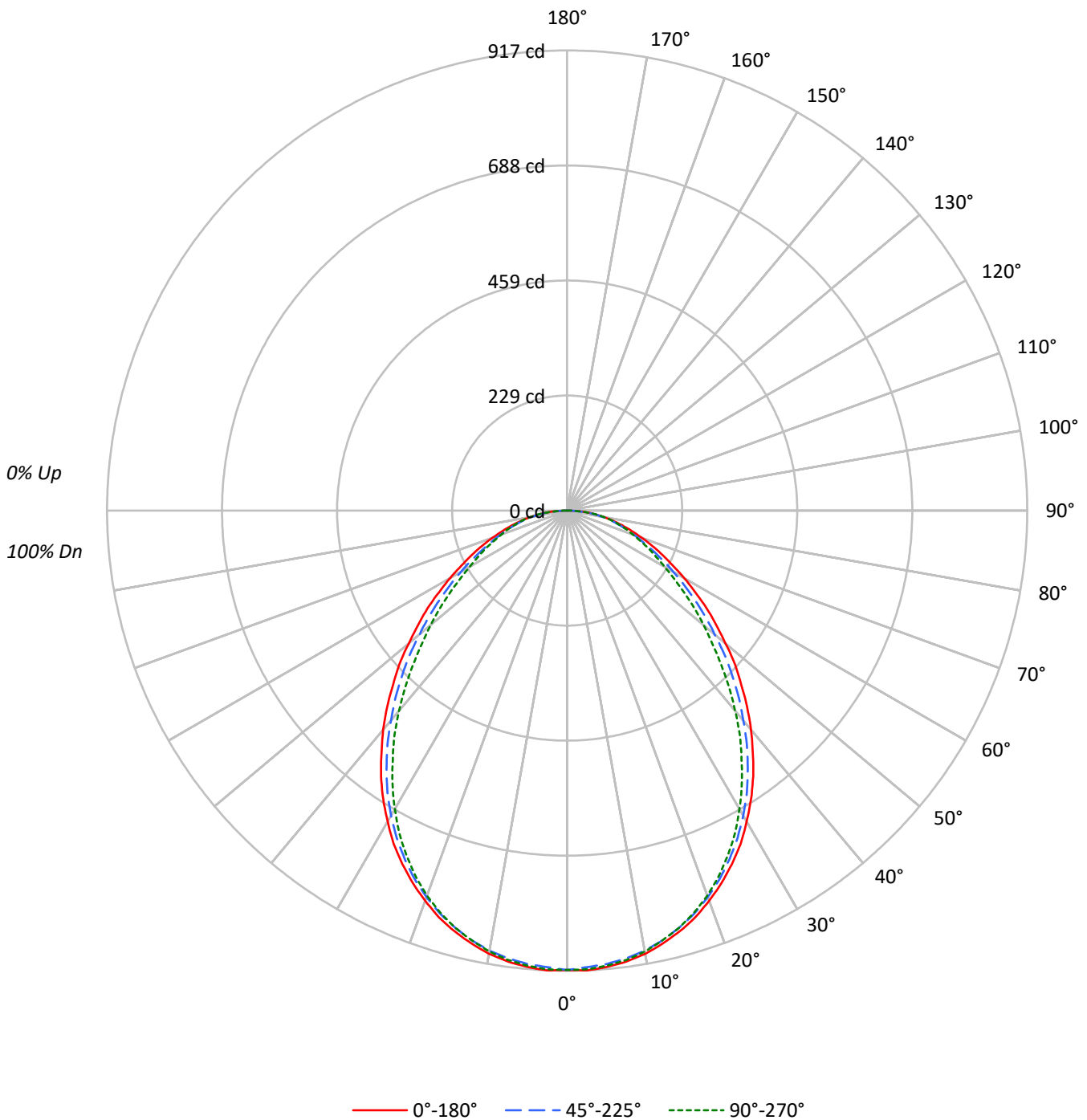
Lumens per Lamp: N/A  
Luminaire Lumens: 2055.1 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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°	2463	2463	2463
5°	2466	2450	2459
10°	2450	2433	2438
15°	2418	2398	2398
20°	2370	2347	2338
25°	2307	2274	2250
30°	2224	2180	2134
35°	2123	2062	1991
40°	2003	1919	1830
45°	1868	1771	1651
50°	1726	1606	1486
55°	1592	1456	1337
60°	1453	1316	1207
65°	1335	1195	1140
70°	1239	1117	1095
75°	1183	1085	1105
80°	1159	1093	1151
85°	1192	1074	1145



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	4.2
10°-20°	243.1	11.8
20°-30°	352.7	17.2
30°-40°	391.6	19.1
40°-50°	358.2	17.4
50°-60°	279.1	13.6
60°-70°	190.7	9.3
70°-80°	113.9	5.5
80°-90°	39.6	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°	682.1	33.2
0°-40°	1073.7	52.2
0°-60°	1711.0	83.3
0°-90°	2055.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	913	911	907	912	910	87
15°	868	866	861	864	861	244
25°	777	774	766	764	758	357
35°	646	641	628	614	606	403
45°	491	484	465	444	434	379
55°	339	329	310	292	285	303
65°	210	202	188	179	179	209
75°	114	109	104	106	106	121
85°	39	37	35	38	37	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	915.4	915.4	915.4	915.4	915.4
2.5°	917.3	914.9	910.7	915.4	914.9
5°	913.0	911.1	906.9	911.6	910.2
7.5°	906.4	904.6	899.9	905.0	903.1
10°	896.6	894.2	890.5	894.2	892.3
12.5°	883.4	881.1	877.3	880.6	877.3
15°	867.9	865.5	860.8	864.1	860.8
17.5°	849.6	846.3	842.5	843.0	840.1
20°	827.5	824.2	819.5	819.5	816.6
22.5°	803.5	800.2	794.5	792.7	788.9
25°	777.1	773.9	765.9	763.5	757.9
27.5°	748.5	743.3	735.3	730.1	724.5
30°	715.6	711.3	701.5	693.9	686.9
32.5°	682.2	677.9	666.7	655.4	647.9
35°	646.4	640.8	627.6	614.5	606.0
37.5°	607.9	603.2	588.2	572.2	565.6
40°	570.3	564.2	546.3	529.9	520.9
42.5°	530.8	524.2	506.3	487.5	477.7
45°	490.8	484.2	465.4	443.8	433.9
47.5°	453.7	445.2	425.5	403.9	392.1
50°	412.3	405.3	383.6	363.0	355.0
52.5°	373.8	367.2	347.0	326.8	319.2
55°	339.4	329.1	310.3	292.0	284.9
57.5°	302.8	294.3	276.4	259.0	252.0
60°	269.9	263.3	244.5	229.4	224.3
62.5°	237.4	232.3	214.9	203.6	200.3
65°	209.7	201.7	187.6	179.1	179.1
67.5°	183.4	175.4	163.1	159.8	157.0
70°	157.5	151.4	142.0	139.2	139.2
72.5°	134.5	129.3	122.7	121.8	123.6
75°	113.8	109.1	104.4	106.3	106.3
77.5°	93.1	89.8	87.9	88.9	90.7
80°	74.8	72.4	70.5	72.9	74.3
82.5°	57.4	55.0	53.6	56.9	56.4
85°	38.6	36.7	34.8	38.1	37.1
87.5°	19.3	18.3	15.0	16.9	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)