

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: P476225

Luminaire Tested: **14GR-LD5-28-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476225
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-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2876.8 lumens
Efficiency: N/A
Efficacy: 123.5 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

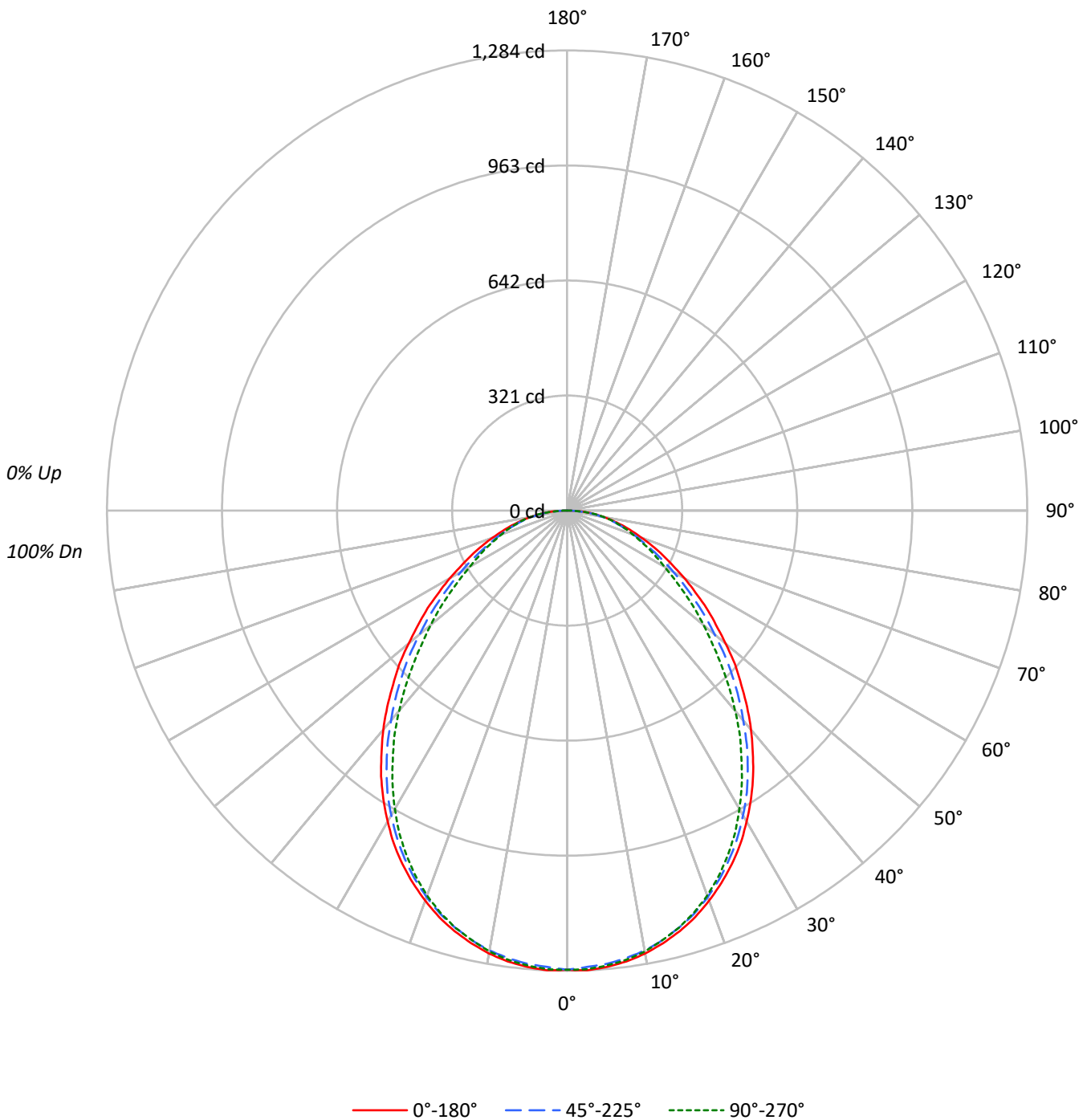
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3448	3448	3448
5°	3452	3429	3442
10°	3429	3406	3413
15°	3385	3357	3357
20°	3317	3285	3274
25°	3230	3183	3150
30°	3113	3051	2988
35°	2973	2886	2787
40°	2804	2686	2562
45°	2615	2479	2312
50°	2416	2248	2080
55°	2229	2038	1871
60°	2033	1842	1689
65°	1869	1672	1596
70°	1735	1564	1533
75°	1656	1519	1546
80°	1621	1530	1612
85°	1667	1504	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	4.2
10°-20°	340.3	11.8
20°-30°	493.7	17.2
30°-40°	548.1	19.1
40°-50°	501.5	17.4
50°-60°	390.6	13.6
60°-70°	266.9	9.3
70°-80°	159.4	5.5
80°-90°	55.4	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
0°-30°	954.8	33.2
0°-40°	1502.9	52.2
0°-60°	2395.0	83.3
0°-90°	2876.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1278	1275	1270	1276	1274	121
15°	1215	1212	1205	1210	1205	342
25°	1088	1083	1072	1069	1061	500
35°	905	897	879	860	848	565
45°	687	678	652	621	607	531
55°	475	461	434	409	399	424
65°	294	282	263	251	251	292
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°	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1284.0	1280.7	1274.8	1281.4	1280.7
5°	1278.1	1275.4	1269.5	1276.1	1274.1
7.5°	1268.9	1266.2	1259.6	1266.9	1264.2
10°	1255.0	1251.7	1246.5	1251.7	1249.1
12.5°	1236.6	1233.3	1228.0	1232.7	1228.0
15°	1214.9	1211.6	1205.0	1209.6	1205.0
17.5°	1189.2	1184.6	1179.3	1180.0	1176.1
20°	1158.3	1153.7	1147.1	1147.1	1143.2
22.5°	1124.7	1120.1	1112.2	1109.6	1104.3
25°	1087.9	1083.3	1072.1	1068.8	1060.9
27.5°	1047.7	1040.5	1029.3	1022.1	1014.2
30°	1001.7	995.7	981.9	971.4	961.5
32.5°	954.9	949.0	933.2	917.4	906.9
35°	904.9	897.0	878.6	860.2	848.3
37.5°	850.9	844.4	823.3	800.9	791.7
40°	798.3	789.7	764.7	741.7	729.2
42.5°	743.0	733.8	708.8	682.5	668.6
45°	687.1	677.9	651.5	621.3	607.4
47.5°	635.1	623.2	595.6	565.3	548.9
50°	577.2	567.3	537.0	508.1	496.9
52.5°	523.2	514.0	485.7	457.4	446.9
55°	475.2	460.7	434.4	408.7	398.8
57.5°	423.8	412.0	387.0	362.6	352.8
60°	377.8	368.5	342.2	321.2	313.9
62.5°	332.3	325.1	300.8	285.0	280.4
65°	293.5	282.3	262.6	250.7	250.7
67.5°	256.7	245.5	228.4	223.8	219.8
70°	220.5	211.9	198.8	194.8	194.8
72.5°	188.2	181.0	171.8	170.5	173.1
75°	159.3	152.7	146.1	148.7	148.7
77.5°	130.3	125.7	123.1	124.4	127.0
80°	104.6	101.4	98.7	102.0	104.0
82.5°	80.3	77.0	75.0	79.6	79.0
85°	54.0	51.3	48.7	53.3	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)