

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: P476210

Luminaire Tested: **14GR-LD5-40-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476210  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-40-F125-UNV-L830-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3833.2 lumens  
Efficiency: N/A  
Efficacy: 122.5 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

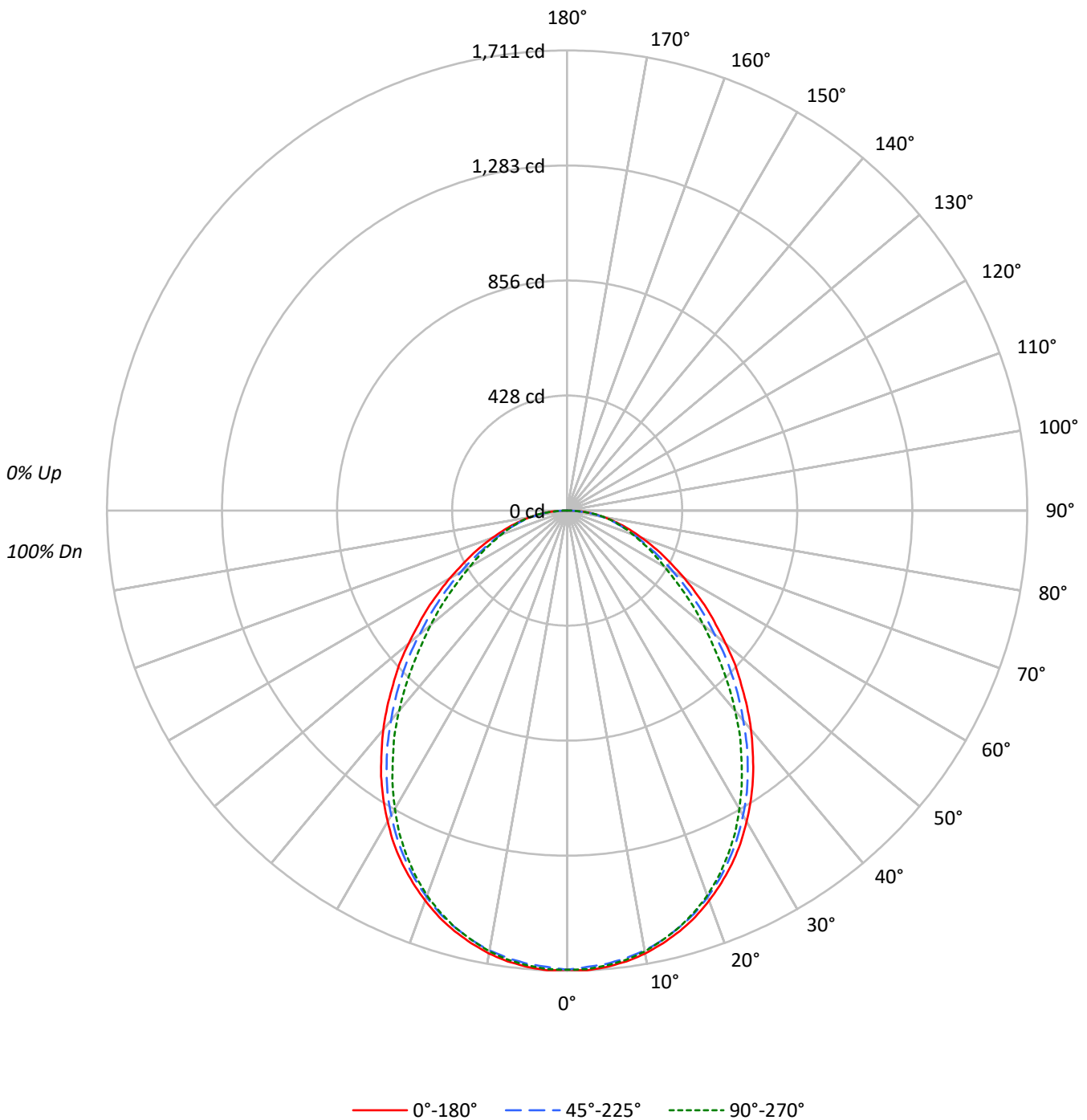
Input Watts (W): 31.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4594	4594	4594
5°	4600	4569	4586
10°	4570	4538	4548
15°	4510	4473	4473
20°	4420	4377	4362
25°	4304	4241	4197
30°	4147	4066	3981
35°	3961	3846	3713
40°	3737	3580	3413
45°	3484	3304	3080
50°	3220	2996	2772
55°	2970	2715	2493
60°	2709	2454	2251
65°	2490	2228	2127
70°	2312	2083	2043
75°	2206	2024	2061
80°	2160	2038	2148
85°	2220	2004	2140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.1	4.2
10°-20°	453.4	11.8
20°-30°	657.8	17.2
30°-40°	730.3	19.1
40°-50°	668.2	17.4
50°-60°	520.5	13.6
60°-70°	355.6	9.3
70°-80°	212.4	5.5
80°-90°	73.9	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°	1272.3	33.2
0°-40°	2002.6	52.2
0°-60°	3191.3	83.3
0°-90°	3833.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1703	1700	1692	1700	1698	162
15°	1619	1614	1606	1612	1606	456
25°	1450	1443	1428	1424	1414	666
35°	1206	1195	1171	1146	1130	752
45°	916	903	868	828	809	707
55°	633	614	579	545	531	565
65°	391	376	350	334	334	389
75°	212	203	195	198	198	225
85°	72	68	65	71	69	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1707.3	1707.3	1707.3	1707.3	1707.3
2.5°	1710.9	1706.5	1698.6	1707.3	1706.5
5°	1703.0	1699.5	1691.6	1700.3	1697.7
7.5°	1690.7	1687.2	1678.4	1688.1	1684.5
10°	1672.3	1667.9	1660.9	1667.9	1664.4
12.5°	1647.7	1643.3	1636.3	1642.5	1636.3
15°	1618.8	1614.4	1605.6	1611.8	1605.6
17.5°	1584.6	1578.4	1571.4	1572.3	1567.0
20°	1543.4	1537.2	1528.5	1528.5	1523.2
22.5°	1498.6	1492.5	1482.0	1478.5	1471.5
25°	1449.5	1443.4	1428.5	1424.1	1413.6
27.5°	1396.0	1386.4	1371.5	1361.8	1351.3
30°	1334.7	1326.8	1308.4	1294.3	1281.2
32.5°	1272.4	1264.5	1243.5	1222.4	1208.4
35°	1205.8	1195.2	1170.7	1146.1	1130.3
37.5°	1133.8	1125.1	1097.0	1067.2	1054.9
40°	1063.7	1052.3	1019.0	988.3	971.6
42.5°	990.0	977.8	944.4	909.4	890.9
45°	915.5	903.2	868.1	827.8	809.4
47.5°	846.2	830.4	793.6	753.3	731.3
50°	769.1	755.9	715.6	677.0	662.1
52.5°	697.1	684.9	647.2	609.5	595.4
55°	633.1	613.8	578.8	544.6	531.4
57.5°	564.7	548.9	515.6	483.2	470.0
60°	503.3	491.1	456.0	427.9	418.3
62.5°	442.8	433.2	400.7	379.7	373.6
65°	391.1	376.2	349.9	334.1	334.1
67.5°	342.0	327.1	304.3	298.1	292.9
70°	293.8	282.4	264.8	259.6	259.6
72.5°	250.8	241.2	228.9	227.1	230.6
75°	212.2	203.4	194.7	198.2	198.2
77.5°	173.6	167.5	164.0	165.7	169.2
80°	139.4	135.0	131.5	135.9	138.6
82.5°	107.0	102.6	100.0	106.1	105.2
85°	71.9	68.4	64.9	71.0	69.3
87.5°	36.0	34.2	28.1	31.6	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)