

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: P476139

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476139  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-FGW080-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3703.4 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

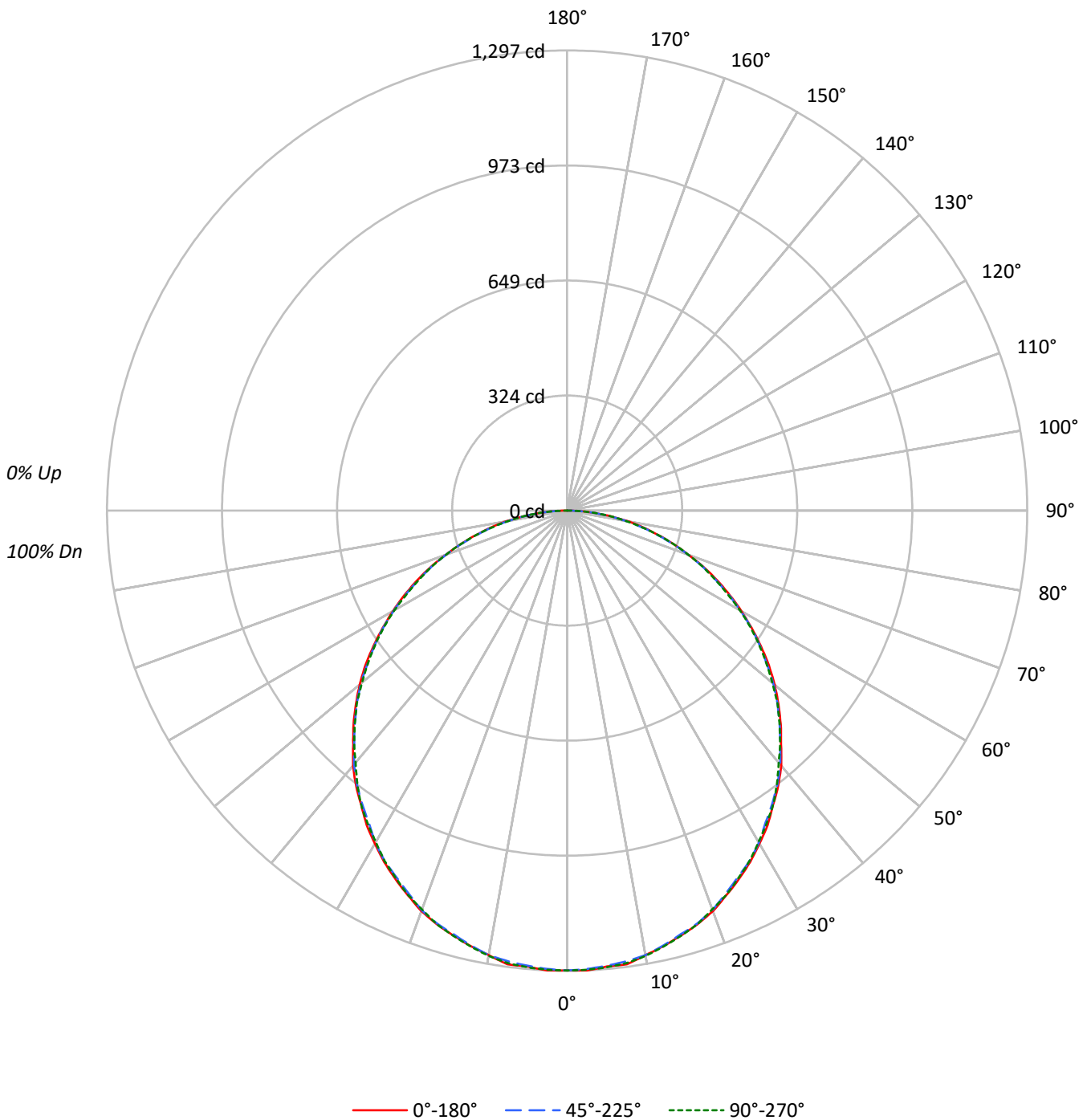
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3488	3488	3488
5°	3484	3478	3490
10°	3477	3477	3483
15°	3454	3445	3457
20°	3441	3432	3426
25°	3403	3384	3393
30°	3369	3358	3352
35°	3326	3312	3326
40°	3297	3282	3258
45°	3240	3220	3220
50°	3195	3177	3159
55°	3128	3107	3102
60°	3055	3038	3026
65°	2977	2942	2928
70°	2858	2850	2858
75°	2758	2724	2747
80°	2729	2593	2577
85°	2421	2353	2387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	3.3
10°-20°	349.9	9.4
20°-30°	526.8	14.2
30°-40°	632.3	17.1
40°-50°	654.2	17.7
50°-60°	592.8	16.0
60°-70°	459.5	12.4
70°-80°	278.9	7.5
80°-90°	86.4	2.3
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°	999.4	27.0
0°-40°	1631.6	44.1
0°-60°	2878.6	77.7
0°-90°	3703.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3703.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1290	1290	1288	1291	1292	123
15°	1240	1240	1236	1242	1241	350
25°	1146	1144	1140	1144	1143	528
35°	1012	1012	1008	1009	1012	635
45°	851	850	846	846	846	657
55°	667	666	662	661	661	596
65°	468	468	462	464	460	462
75°	265	264	262	262	264	282
85°	78	77	76	76	77	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1296.3	1296.3	1296.3	1296.3	1296.3
2.5°	1297.4	1292.0	1293.1	1295.3	1295.3
5°	1289.8	1289.8	1287.6	1290.9	1292.0
7.5°	1289.8	1284.4	1281.1	1284.4	1286.5
10°	1272.4	1270.2	1272.4	1271.3	1274.6
12.5°	1257.2	1255.0	1255.0	1258.2	1258.2
15°	1239.7	1239.7	1236.5	1241.9	1240.8
17.5°	1222.3	1222.3	1220.2	1220.2	1222.3
20°	1201.6	1196.2	1198.4	1197.3	1196.2
22.5°	1173.3	1170.1	1167.9	1171.2	1172.3
25°	1146.1	1144.0	1139.6	1144.0	1142.9
27.5°	1116.7	1114.6	1113.5	1111.3	1113.5
30°	1084.1	1081.9	1080.8	1078.7	1078.7
32.5°	1051.4	1047.1	1041.6	1047.1	1046.0
35°	1012.5	1012.5	1008.2	1009.3	1012.5
37.5°	977.7	975.5	973.3	970.1	971.2
40°	938.5	935.3	934.2	932.0	927.6
42.5°	892.8	892.8	888.4	889.5	888.4
45°	851.4	850.4	846.0	846.0	846.0
47.5°	807.9	806.8	803.5	801.4	803.5
50°	763.3	758.9	758.9	755.7	754.6
52.5°	716.7	713.5	709.1	710.2	708.0
55°	666.7	665.6	662.3	661.2	661.2
57.5°	616.6	617.7	615.5	611.2	612.3
60°	567.6	566.5	564.4	562.2	562.2
62.5°	517.6	517.6	513.2	513.2	508.9
65°	467.5	467.5	462.0	464.2	459.9
67.5°	417.7	416.6	413.3	412.3	413.3
70°	363.3	364.4	362.2	362.2	363.3
72.5°	314.3	313.2	312.1	312.1	314.3
75°	265.3	264.2	262.0	262.0	264.2
77.5°	220.7	215.2	214.2	216.3	213.1
80°	176.1	168.4	167.3	166.3	166.3
82.5°	124.1	120.8	121.9	120.8	123.0
85°	78.4	77.3	76.2	76.2	77.3
87.5°	37.0	34.8	34.8	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)