

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: P476162

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476162
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-FGW080-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.1 lumens
Efficiency: N/A
Efficacy: 110.0 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

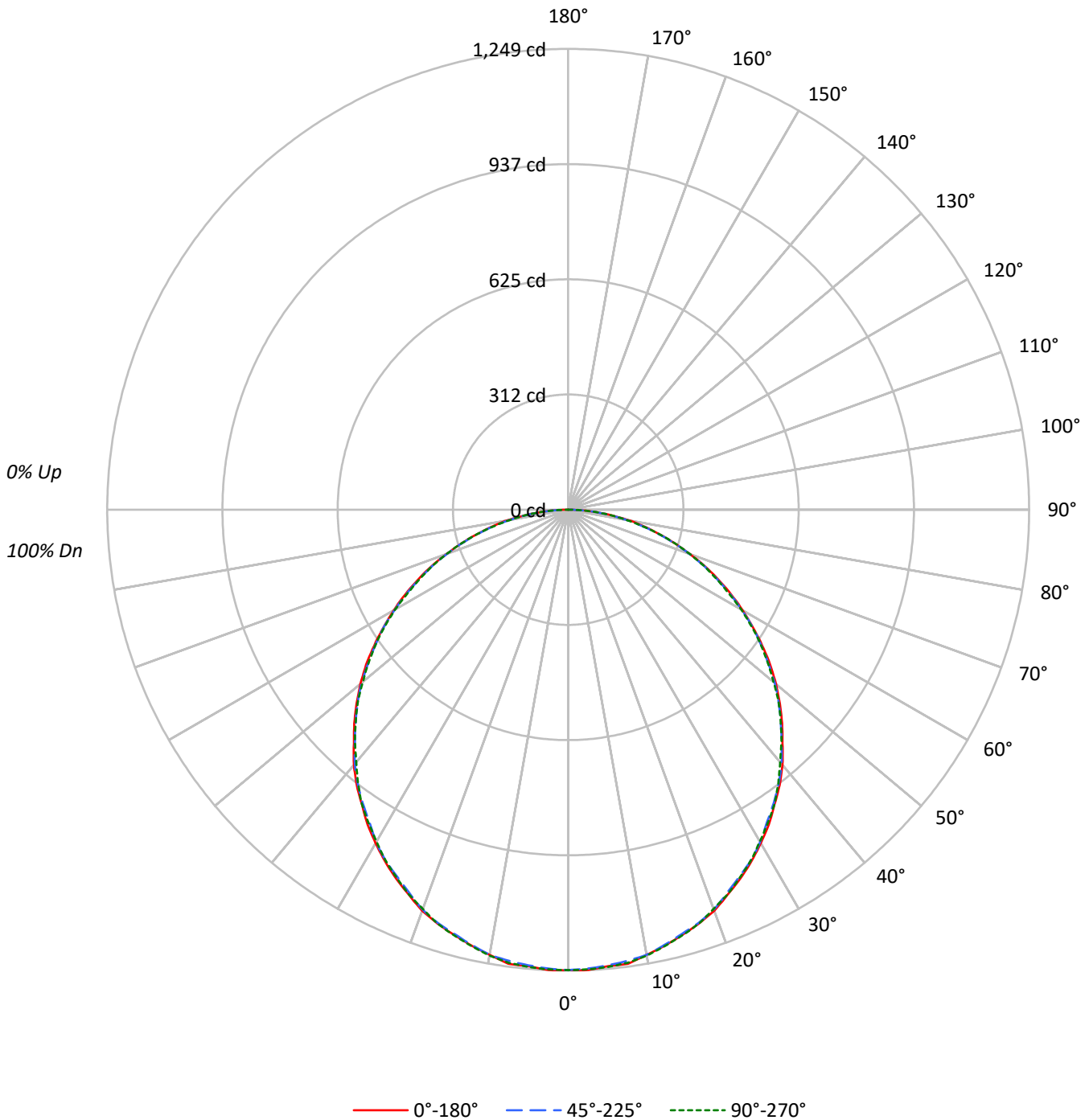
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3358	3358	3358
5°	3354	3348	3360
10°	3347	3347	3353
15°	3325	3316	3328
20°	3313	3304	3298
25°	3276	3257	3267
30°	3243	3233	3227
35°	3202	3188	3202
40°	3174	3159	3137
45°	3119	3099	3099
50°	3076	3059	3041
55°	3011	2991	2986
60°	2941	2924	2913
65°	2865	2832	2819
70°	2751	2744	2751
75°	2655	2623	2645
80°	2627	2497	2479
85°	2328	2263	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.3
10°-20°	336.8	9.4
20°-30°	507.1	14.2
30°-40°	608.6	17.1
40°-50°	629.7	17.7
50°-60°	570.7	16.0
60°-70°	442.3	12.4
70°-80°	268.5	7.5
80°-90°	83.1	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°	962.0	27.0
0°-40°	1570.7	44.1
0°-60°	2771.1	77.7
0°-90°	3565.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1242	1242	1240	1243	1244	118
15°	1193	1193	1190	1196	1194	337
25°	1103	1101	1097	1101	1100	509
35°	975	975	970	972	975	611
45°	820	819	814	814	814	632
55°	642	641	638	636	636	574
65°	450	450	445	447	443	445
75°	255	254	252	252	254	272
85°	75	74	73	73	74	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.9	1247.9	1247.9	1247.9	1247.9
2.5°	1249.0	1243.7	1244.8	1246.9	1246.9
5°	1241.6	1241.6	1239.5	1242.7	1243.7
7.5°	1241.6	1236.4	1233.2	1236.4	1238.5
10°	1224.9	1222.8	1224.9	1223.8	1227.0
12.5°	1210.2	1208.1	1208.1	1211.2	1211.2
15°	1193.4	1193.4	1190.3	1195.5	1194.5
17.5°	1176.7	1176.7	1174.6	1174.6	1176.7
20°	1156.8	1151.5	1153.6	1152.6	1151.5
22.5°	1129.5	1126.4	1124.3	1127.4	1128.5
25°	1103.3	1101.2	1097.0	1101.2	1100.2
27.5°	1075.0	1072.9	1071.9	1069.8	1071.9
30°	1043.6	1041.5	1040.5	1038.4	1038.4
32.5°	1012.2	1008.0	1002.7	1008.0	1006.9
35°	974.7	974.7	970.5	971.6	974.7
37.5°	941.2	939.1	937.0	933.8	934.9
40°	903.5	900.3	899.3	897.2	893.0
42.5°	859.4	859.4	855.3	856.3	855.3
45°	819.6	818.6	814.4	814.4	814.4
47.5°	777.7	776.7	773.5	771.4	773.5
50°	734.8	730.6	730.6	727.4	726.4
52.5°	690.0	686.8	682.6	683.7	681.6
55°	641.8	640.7	637.6	636.5	636.5
57.5°	593.6	594.6	592.5	588.3	589.4
60°	546.4	545.4	543.3	541.2	541.2
62.5°	498.2	498.2	494.0	494.0	489.8
65°	450.0	450.0	444.8	446.9	442.7
67.5°	402.1	401.0	397.9	396.9	397.9
70°	349.7	350.7	348.7	348.7	349.7
72.5°	302.5	301.5	300.5	300.5	302.5
75°	255.4	254.4	252.3	252.3	254.4
77.5°	212.4	207.2	206.2	208.2	205.1
80°	169.5	162.1	161.1	160.0	160.0
82.5°	119.4	116.3	117.4	116.3	118.4
85°	75.4	74.4	73.3	73.3	74.4
87.5°	35.6	33.5	33.5	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)