

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: P476138

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476138
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-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: 3495.2 lumens
Efficiency: N/A
Efficacy: 107.9 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

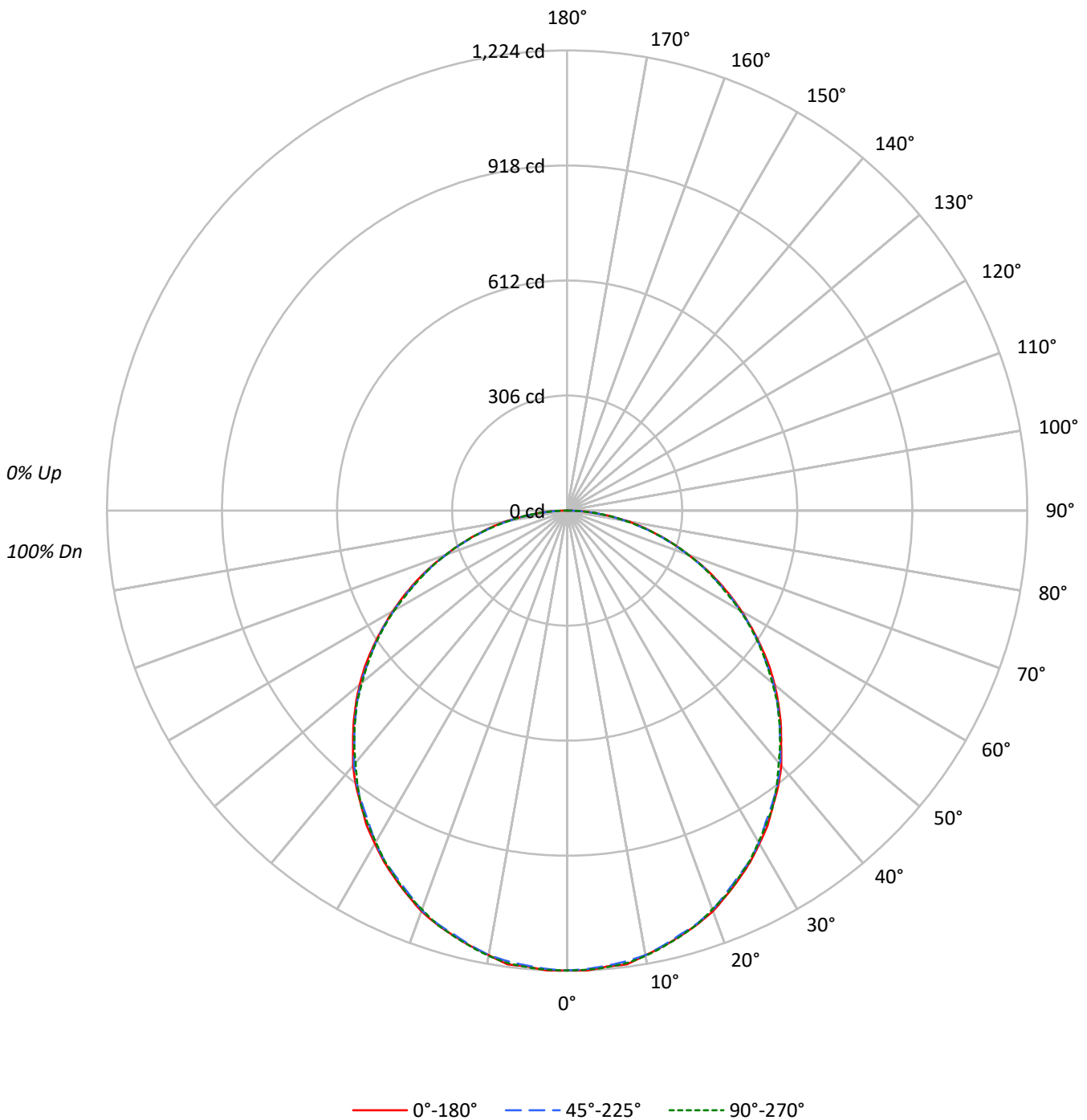
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3292	3292	3292
5°	3288	3283	3294
10°	3281	3281	3287
15°	3260	3251	3263
20°	3248	3239	3233
25°	3212	3193	3203
30°	3179	3170	3163
35°	3139	3126	3139
40°	3111	3097	3075
45°	3058	3038	3038
50°	3016	2998	2981
55°	2952	2933	2928
60°	2883	2866	2856
65°	2809	2777	2763
70°	2697	2689	2697
75°	2603	2571	2593
80°	2576	2447	2431
85°	2285	2220	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.3
10°-20°	330.2	9.4
20°-30°	497.2	14.2
30°-40°	596.7	17.1
40°-50°	617.4	17.7
50°-60°	559.5	16.0
60°-70°	433.7	12.4
70°-80°	263.3	7.5
80°-90°	81.5	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°	943.1	27.0
0°-40°	1539.9	44.1
0°-60°	2716.8	77.7
0°-90°	3495.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3495.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1217	1217	1215	1218	1219	116
15°	1170	1170	1167	1172	1171	331
25°	1082	1080	1076	1080	1079	499
35°	956	956	952	952	956	599
45°	804	802	798	798	798	620
55°	629	628	625	624	624	563
65°	441	441	436	438	434	436
75°	250	249	247	247	249	266
85°	74	73	72	72	73	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.4	1223.4	1223.4	1223.4	1223.4
2.5°	1224.5	1219.3	1220.4	1222.4	1222.4
5°	1217.3	1217.3	1215.2	1218.3	1219.3
7.5°	1217.3	1212.1	1209.1	1212.1	1214.2
10°	1200.8	1198.8	1200.8	1199.8	1202.9
12.5°	1186.5	1184.4	1184.4	1187.5	1187.5
15°	1170.0	1170.0	1166.9	1172.1	1171.1
17.5°	1153.6	1153.6	1151.5	1151.5	1153.6
20°	1134.1	1128.9	1131.0	1130.0	1128.9
22.5°	1107.4	1104.3	1102.2	1105.3	1106.3
25°	1081.7	1079.6	1075.5	1079.6	1078.6
27.5°	1054.0	1051.9	1050.9	1048.8	1050.9
30°	1023.1	1021.1	1020.1	1018.0	1018.0
32.5°	992.3	988.2	983.1	988.2	987.2
35°	955.6	955.6	951.5	952.5	955.6
37.5°	922.7	920.7	918.6	915.5	916.6
40°	885.7	882.7	881.6	879.6	875.5
42.5°	842.6	842.6	838.5	839.5	838.5
45°	803.6	802.5	798.4	798.4	798.4
47.5°	762.5	761.4	758.4	756.3	758.4
50°	720.4	716.2	716.2	713.2	712.1
52.5°	676.4	673.4	669.2	670.3	668.2
55°	629.2	628.2	625.1	624.1	624.1
57.5°	581.9	583.0	580.9	576.8	577.8
60°	535.7	534.7	532.6	530.6	530.6
62.5°	488.5	488.5	484.3	484.3	480.2
65°	441.2	441.2	436.1	438.1	434.0
67.5°	394.2	393.2	390.1	389.1	390.1
70°	342.8	343.9	341.8	341.8	342.8
72.5°	296.6	295.6	294.6	294.6	296.6
75°	250.4	249.4	247.3	247.3	249.4
77.5°	208.3	203.1	202.1	204.2	201.1
80°	166.2	159.0	157.9	156.9	156.9
82.5°	117.1	114.0	115.1	114.0	116.1
85°	74.0	72.9	71.9	71.9	72.9
87.5°	34.9	32.9	32.9	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)