

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: P476163

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476163
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-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: 3777.5 lumens
Efficiency: N/A
Efficacy: 108.5 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

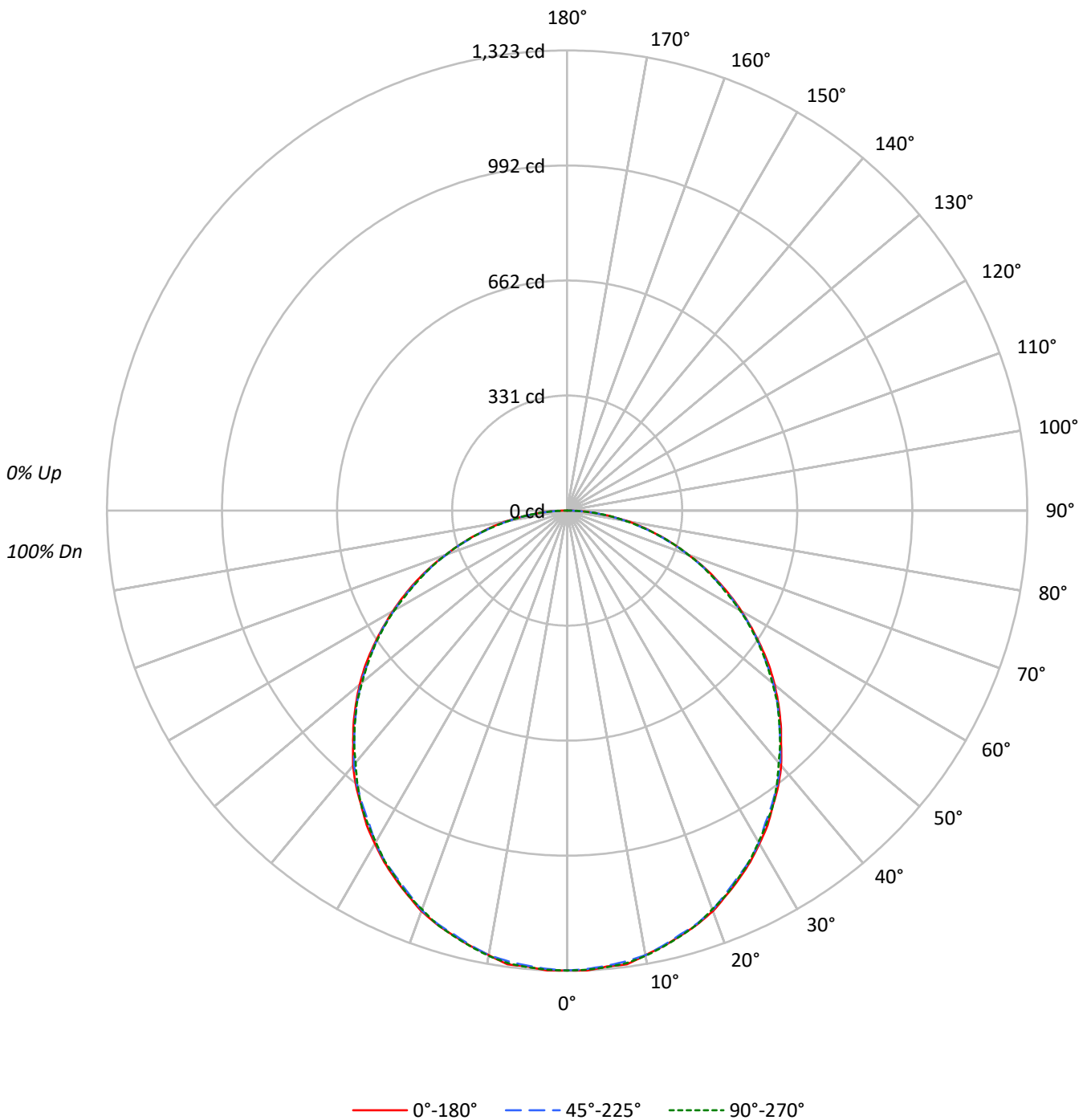
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3558	3558	3558
5°	3554	3548	3560
10°	3546	3546	3553
15°	3523	3514	3526
20°	3510	3501	3494
25°	3471	3451	3461
30°	3436	3425	3419
35°	3393	3378	3393
40°	3363	3347	3324
45°	3305	3284	3284
50°	3259	3241	3222
55°	3190	3170	3164
60°	3116	3098	3086
65°	3036	3001	2987
70°	2915	2906	2915
75°	2813	2779	2802
80°	2783	2645	2628
85°	2467	2399	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.3
10°-20°	356.9	9.4
20°-30°	537.4	14.2
30°-40°	644.9	17.1
40°-50°	667.3	17.7
50°-60°	604.7	16.0
60°-70°	468.7	12.4
70°-80°	284.5	7.5
80°-90°	88.1	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°	1019.3	27.0
0°-40°	1664.2	44.1
0°-60°	2936.2	77.7
0°-90°	3777.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3777.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1316	1316	1313	1317	1318	125
15°	1264	1264	1261	1267	1266	357
25°	1169	1167	1162	1167	1166	539
35°	1033	1033	1028	1030	1033	647
45°	868	867	863	863	863	670
55°	680	679	676	674	674	608
65°	477	477	471	474	469	472
75°	271	270	267	267	270	288
85°	80	79	78	78	79	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1323.4	1317.8	1318.9	1321.2	1321.2
5°	1315.6	1315.6	1313.4	1316.7	1317.8
7.5°	1315.6	1310.1	1306.7	1310.1	1312.3
10°	1297.8	1295.6	1297.8	1296.7	1300.1
12.5°	1282.3	1280.1	1280.1	1283.4	1283.4
15°	1264.5	1264.5	1261.2	1266.8	1265.6
17.5°	1246.8	1246.8	1244.6	1244.6	1246.8
20°	1225.7	1220.1	1222.4	1221.2	1220.1
22.5°	1196.8	1193.5	1191.3	1194.6	1195.7
25°	1169.1	1166.8	1162.4	1166.8	1165.7
27.5°	1139.1	1136.9	1135.8	1133.5	1135.8
30°	1105.8	1103.6	1102.4	1100.2	1100.2
32.5°	1072.5	1068.0	1062.5	1068.0	1066.9
35°	1032.8	1032.8	1028.3	1029.5	1032.8
37.5°	997.3	995.0	992.8	989.5	990.6
40°	957.3	954.0	952.8	950.6	946.2
42.5°	910.7	910.7	906.2	907.3	906.2
45°	868.5	867.4	862.9	862.9	862.9
47.5°	824.1	822.9	819.6	817.4	819.6
50°	778.5	774.1	774.1	770.8	769.7
52.5°	731.1	727.7	723.3	724.4	722.2
55°	680.0	678.9	675.6	674.5	674.5
57.5°	628.9	630.0	627.8	623.4	624.5
60°	579.0	577.9	575.6	573.4	573.4
62.5°	527.9	527.9	523.5	523.5	519.0
65°	476.8	476.8	471.3	473.5	469.1
67.5°	426.0	424.9	421.6	420.5	421.6
70°	370.5	371.6	369.4	369.4	370.5
72.5°	320.6	319.5	318.4	318.4	320.6
75°	270.6	269.5	267.3	267.3	269.5
77.5°	225.1	219.5	218.4	220.7	217.3
80°	179.6	171.8	170.7	169.6	169.6
82.5°	126.6	123.2	124.3	123.2	125.5
85°	79.9	78.8	77.7	77.7	78.8
87.5°	37.7	35.5	35.5	34.4	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)