

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: P476364

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476364
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-FGW080-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3681.4 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

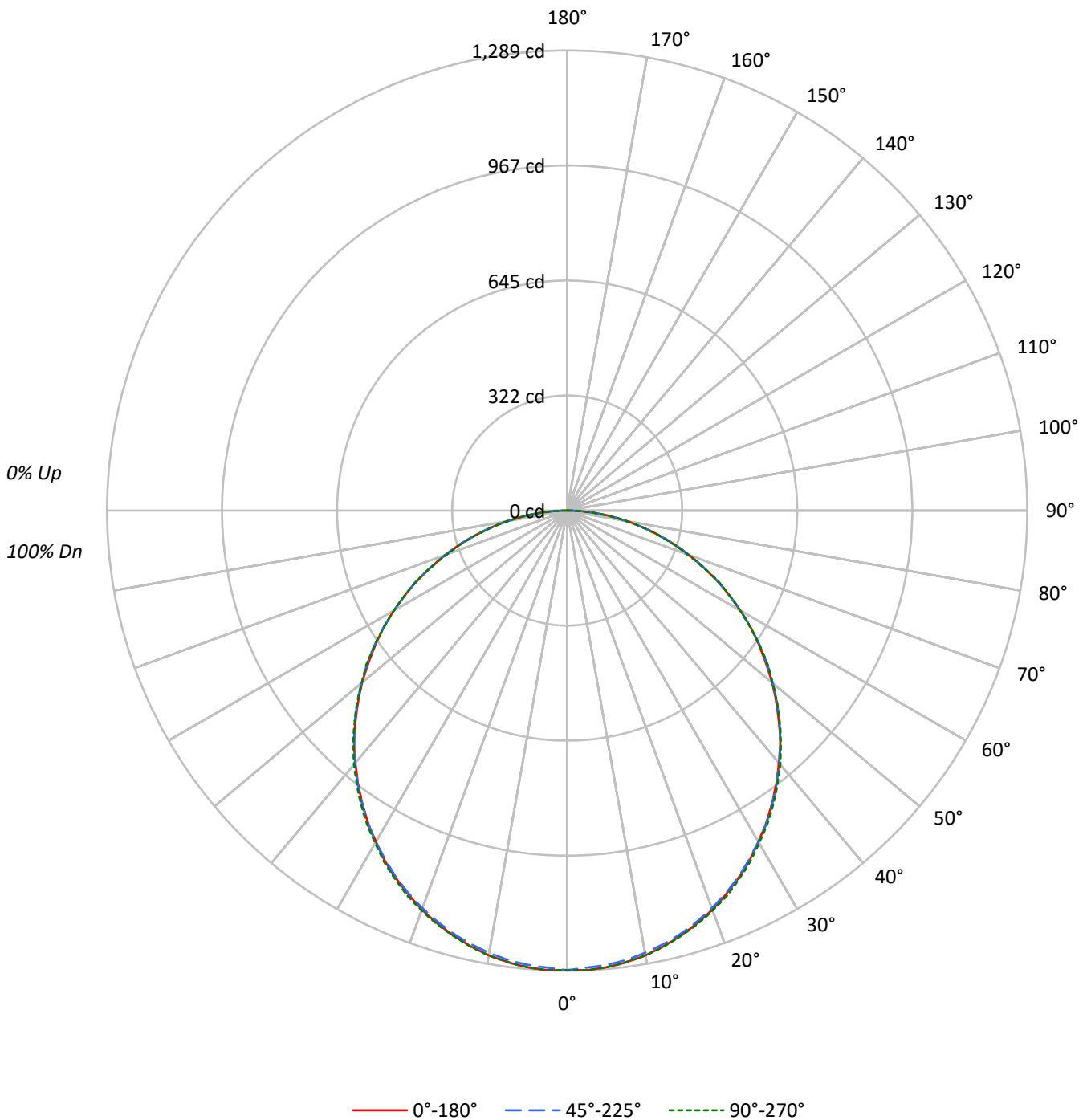
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	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	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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°	3464	3464	3464
5°	3468	3450	3468
10°	3457	3437	3457
15°	3432	3420	3436
20°	3407	3394	3414
25°	3372	3365	3383
30°	3328	3328	3342
35°	3286	3290	3305
40°	3241	3245	3262
45°	3193	3202	3207
50°	3139	3149	3144
55°	3075	3092	3087
60°	3014	3014	3014
65°	2946	2946	2959
70°	2852	2852	2824
75°	2752	2740	2727
80°	2628	2610	2591
85°	2467	2439	2365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.3
10°-20°	347.4	9.4
20°-30°	523.6	14.2
30°-40°	627.5	17.0
40°-50°	648.9	17.6
50°-60°	588.4	16.0
60°-70°	457.2	12.4
70°-80°	279.2	7.6
80°-90°	87.4	2.4
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°	992.8	27.0
0°-40°	1620.3	44.0
0°-60°	2857.5	77.6
0°-90°	3681.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1284	1283	1277	1283	1284	122
15°	1232	1232	1228	1233	1233	348
25°	1136	1136	1133	1140	1139	523
35°	1000	1002	1002	1006	1006	626
45°	839	840	842	843	843	647
55°	656	658	659	659	658	586
65°	463	463	463	460	465	457
75°	265	265	264	262	262	280
85°	80	78	79	77	77	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.4	1287.4	1287.4	1287.4	1287.4
2.5°	1288.6	1287.4	1281.5	1287.4	1288.6
5°	1283.9	1282.7	1277.0	1282.7	1283.9
7.5°	1275.8	1275.8	1269.8	1275.8	1275.8
10°	1265.1	1263.9	1257.9	1263.9	1265.1
12.5°	1249.9	1249.9	1243.9	1249.9	1251.1
15°	1232.0	1232.0	1227.5	1233.2	1233.2
17.5°	1212.0	1213.2	1207.5	1214.4	1214.4
20°	1189.7	1188.5	1185.2	1190.8	1192.0
22.5°	1162.8	1164.0	1160.4	1167.3	1168.5
25°	1135.7	1135.7	1133.3	1140.5	1139.3
27.5°	1106.2	1106.2	1102.6	1108.6	1109.8
30°	1071.0	1072.2	1071.0	1076.7	1075.5
32.5°	1037.9	1039.1	1039.1	1041.5	1042.7
35°	1000.4	1001.6	1001.6	1006.0	1006.0
37.5°	962.5	962.5	963.7	967.3	967.3
40°	922.6	923.8	923.8	927.3	928.5
42.5°	883.8	881.4	882.6	886.2	886.2
45°	839.1	840.3	841.5	842.7	842.7
47.5°	794.4	796.8	798.0	799.2	798.0
50°	749.7	752.1	752.1	750.9	750.9
52.5°	701.4	707.4	706.2	706.2	708.5
55°	655.5	657.9	659.1	659.1	657.9
57.5°	609.6	612.0	609.6	610.8	608.4
60°	560.1	561.3	560.1	560.1	560.1
62.5°	511.8	513.0	510.6	510.6	510.6
65°	462.6	462.6	462.6	460.2	464.7
67.5°	410.8	413.1	413.1	414.3	409.6
70°	362.5	363.7	362.5	361.3	358.9
72.5°	314.2	315.4	316.6	311.8	310.6
75°	264.7	264.7	263.5	262.3	262.3
77.5°	216.4	216.4	216.4	214.3	214.3
80°	169.6	170.5	168.4	168.4	167.2
82.5°	123.7	123.7	123.7	122.5	120.1
85°	79.9	77.8	79.0	76.6	76.6
87.5°	36.4	36.4	36.4	34.0	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)