

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: P476355

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476355
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-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3552.5 lumens
Efficiency: N/A
Efficacy: 107.7 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

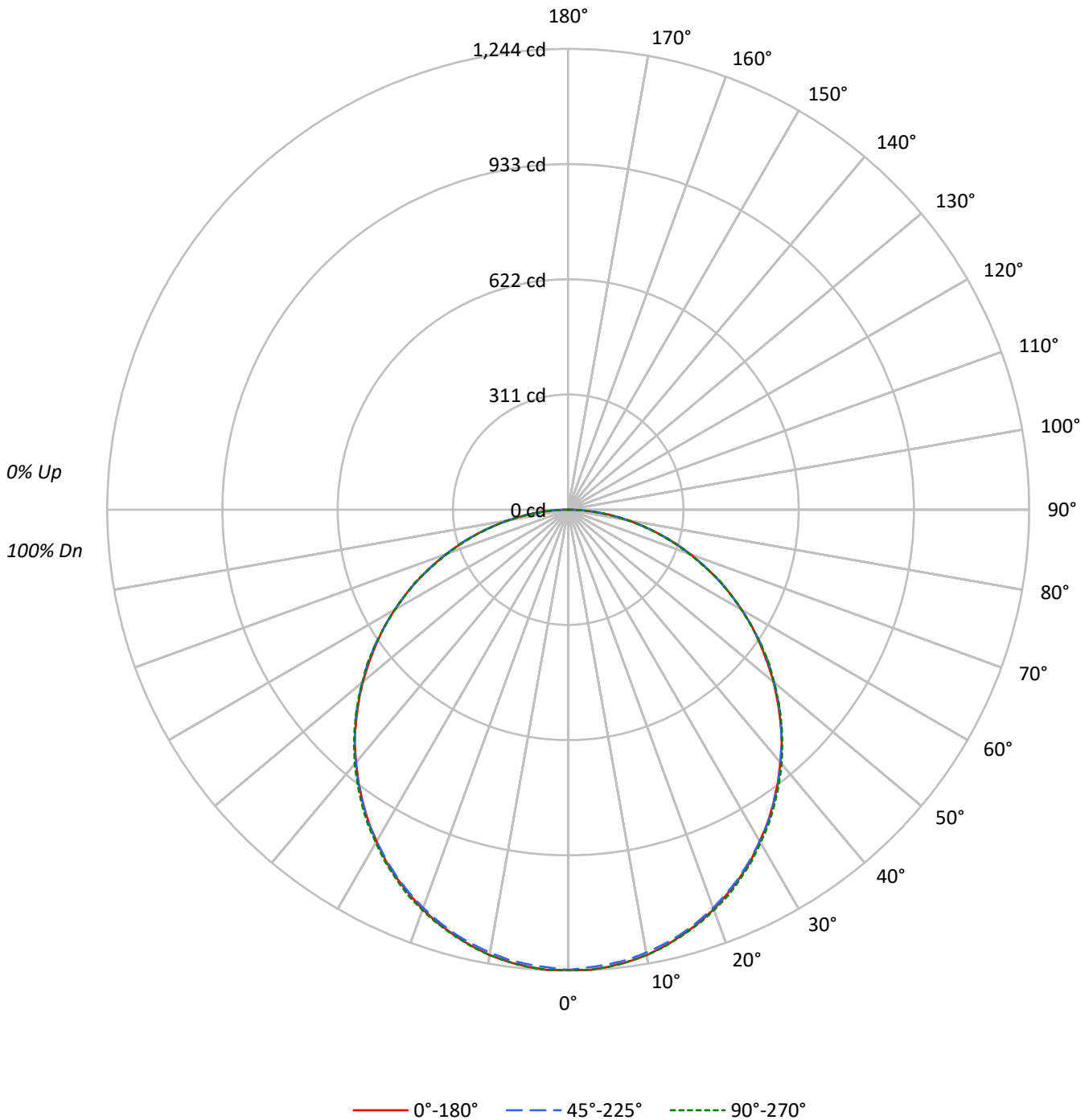
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3343	3343	3343
5°	3347	3329	3347
10°	3336	3317	3336
15°	3312	3300	3315
20°	3288	3275	3294
25°	3254	3247	3264
30°	3211	3211	3225
35°	3171	3175	3189
40°	3127	3131	3147
45°	3081	3090	3095
50°	3028	3038	3033
55°	2967	2984	2978
60°	2909	2909	2909
65°	2842	2842	2855
70°	2752	2752	2725
75°	2655	2644	2632
80°	2537	2518	2501
85°	2381	2353	2282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	3.3
10°-20°	335.3	9.4
20°-30°	505.3	14.2
30°-40°	605.5	17.0
40°-50°	626.2	17.6
50°-60°	567.7	16.0
60°-70°	441.2	12.4
70°-80°	269.4	7.6
80°-90°	84.4	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°	958.1	27.0
0°-40°	1563.6	44.0
0°-60°	2757.5	77.6
0°-90°	3552.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1239	1238	1232	1238	1239	118
15°	1189	1189	1185	1190	1190	335
25°	1096	1096	1094	1101	1099	505
35°	965	966	966	971	971	604
45°	810	811	812	813	813	625
55°	632	635	636	636	635	566
65°	446	446	446	444	448	441
75°	255	255	254	253	253	270
85°	77	75	76	74	74	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1243.5	1242.4	1236.6	1242.4	1243.5
5°	1238.9	1237.8	1232.3	1237.8	1238.9
7.5°	1231.2	1231.2	1225.4	1231.2	1231.2
10°	1220.8	1219.6	1213.9	1219.6	1220.8
12.5°	1206.1	1206.1	1200.4	1206.1	1207.3
15°	1188.9	1188.9	1184.6	1190.0	1190.0
17.5°	1169.6	1170.7	1165.3	1171.9	1171.9
20°	1148.0	1146.9	1143.7	1149.2	1150.3
22.5°	1122.1	1123.3	1119.8	1126.4	1127.6
25°	1096.0	1096.0	1093.7	1100.6	1099.4
27.5°	1067.5	1067.5	1064.0	1069.8	1070.9
30°	1033.5	1034.7	1033.5	1039.0	1037.8
32.5°	1001.6	1002.8	1002.8	1005.1	1006.2
35°	965.4	966.5	966.5	970.8	970.8
37.5°	928.8	928.8	930.0	933.4	933.4
40°	890.3	891.4	891.4	894.9	896.0
42.5°	852.9	850.6	851.7	855.2	855.2
45°	809.7	810.9	812.0	813.2	813.2
47.5°	766.6	768.9	770.0	771.2	770.0
50°	723.4	725.7	725.7	724.6	724.6
52.5°	676.8	682.6	681.4	681.4	683.7
55°	632.5	634.8	636.0	636.0	634.8
57.5°	588.2	590.5	588.2	589.4	587.1
60°	540.5	541.6	540.5	540.5	540.5
62.5°	493.9	495.0	492.7	492.7	492.7
65°	446.4	446.4	446.4	444.1	448.4
67.5°	396.4	398.7	398.7	399.8	395.2
70°	349.8	350.9	349.8	348.6	346.3
72.5°	303.2	304.3	305.5	300.9	299.7
75°	255.4	255.4	254.3	253.1	253.1
77.5°	208.8	208.8	208.8	206.8	206.8
80°	163.7	164.5	162.5	162.5	161.4
82.5°	119.4	119.4	119.4	118.2	115.9
85°	77.1	75.1	76.2	73.9	73.9
87.5°	35.1	35.1	35.1	32.8	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)