

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: P476373

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476373
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-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3751.4 lumens
Efficiency: N/A
Efficacy: 113.7 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

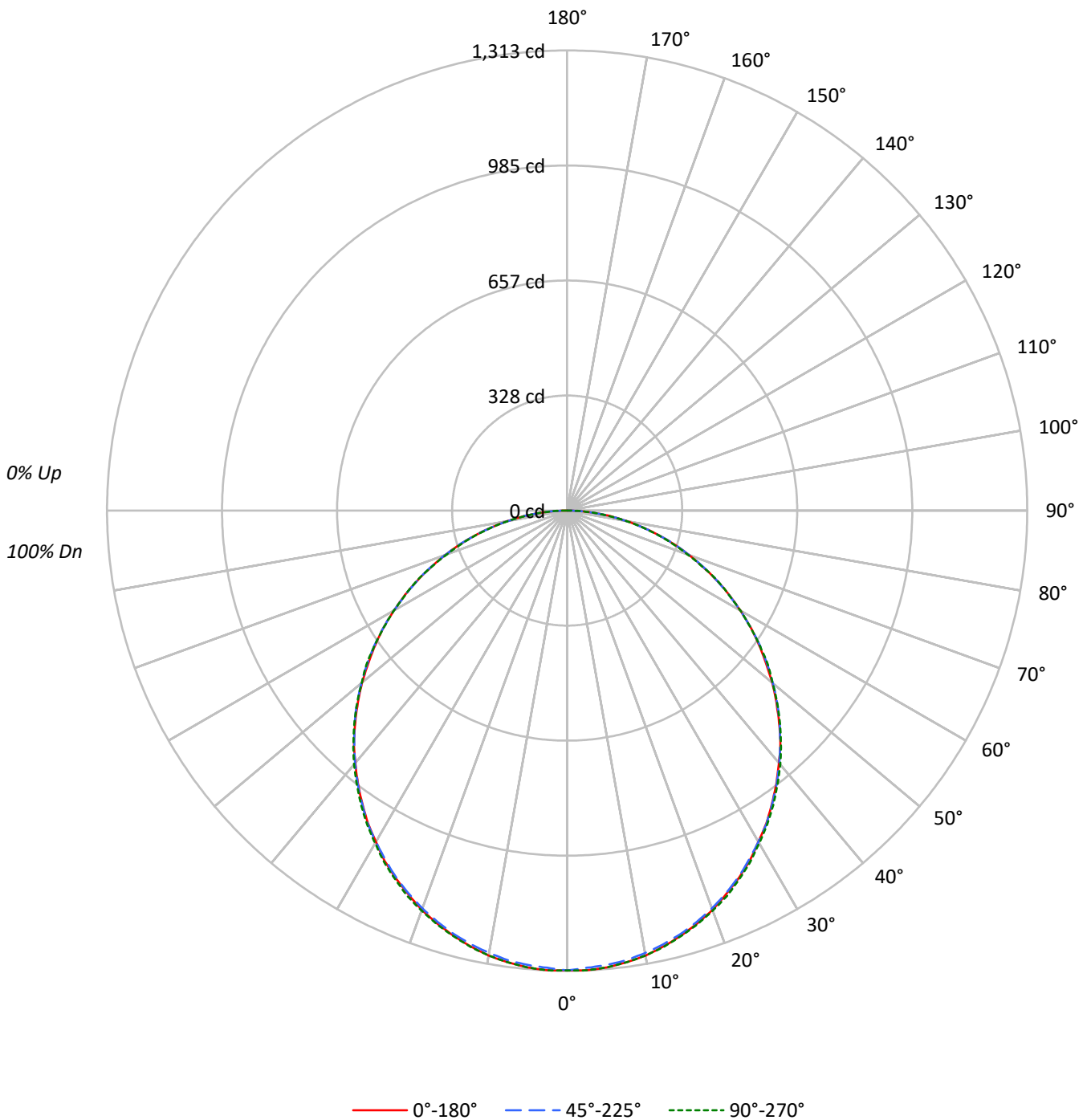
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3530	3530	3530
5°	3534	3515	3534
10°	3522	3503	3522
15°	3497	3485	3501
20°	3472	3458	3479
25°	3436	3429	3447
30°	3391	3391	3405
35°	3349	3353	3368
40°	3302	3307	3324
45°	3254	3263	3268
50°	3198	3208	3203
55°	3134	3151	3145
60°	3071	3071	3071
65°	3002	3002	3015
70°	2906	2906	2877
75°	2804	2792	2779
80°	2678	2659	2641
85°	2513	2485	2411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	3.3
10°-20°	354.0	9.4
20°-30°	533.6	14.2
30°-40°	639.4	17.0
40°-50°	661.2	17.6
50°-60°	599.5	16.0
60°-70°	465.9	12.4
70°-80°	284.5	7.6
80°-90°	89.1	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°	1011.7	27.0
0°-40°	1651.1	44.0
0°-60°	2911.8	77.6
0°-90°	3751.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3751.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1308	1307	1301	1307	1308	124
15°	1255	1255	1251	1257	1257	354
25°	1157	1157	1155	1162	1161	533
35°	1019	1021	1021	1025	1025	638
45°	855	856	858	859	859	660
55°	668	670	672	672	670	597
65°	471	471	471	469	474	466
75°	270	270	268	267	267	285
85°	81	79	80	78	78	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1311.9	1311.9	1311.9	1311.9	1311.9
2.5°	1313.1	1311.9	1305.8	1311.9	1313.1
5°	1308.2	1307.0	1301.3	1307.0	1308.2
7.5°	1300.0	1300.0	1294.0	1300.0	1300.0
10°	1289.1	1287.9	1281.8	1287.9	1289.1
12.5°	1273.6	1273.6	1267.5	1273.6	1274.8
15°	1255.4	1255.4	1250.8	1256.6	1256.6
17.5°	1235.0	1236.3	1230.5	1237.5	1237.5
20°	1212.3	1211.0	1207.7	1213.5	1214.7
22.5°	1184.9	1186.1	1182.5	1189.5	1190.7
25°	1157.3	1157.3	1154.9	1162.1	1160.9
27.5°	1127.2	1127.2	1123.6	1129.6	1130.9
30°	1091.4	1092.6	1091.4	1097.1	1095.9
32.5°	1057.7	1058.9	1058.9	1061.3	1062.5
35°	1019.4	1020.6	1020.6	1025.2	1025.2
37.5°	980.8	980.8	982.0	985.7	985.7
40°	940.1	941.3	941.3	945.0	946.2
42.5°	900.6	898.2	899.4	903.0	903.0
45°	855.1	856.3	857.5	858.7	858.7
47.5°	809.5	811.9	813.1	814.4	813.1
50°	763.9	766.4	766.4	765.1	765.1
52.5°	714.7	720.8	719.6	719.6	722.0
55°	667.9	670.4	671.6	671.6	670.4
57.5°	621.2	623.6	621.2	622.4	620.0
60°	570.7	572.0	570.7	570.7	570.7
62.5°	521.5	522.8	520.3	520.3	520.3
65°	471.4	471.4	471.4	469.0	473.5
67.5°	418.6	421.0	421.0	422.2	417.4
70°	369.4	370.6	369.4	368.1	365.7
72.5°	320.2	321.4	322.6	317.7	316.5
75°	269.7	269.7	268.5	267.3	267.3
77.5°	220.5	220.5	220.5	218.4	218.4
80°	172.8	173.7	171.6	171.6	170.4
82.5°	126.1	126.1	126.1	124.8	122.4
85°	81.4	79.3	80.5	78.1	78.1
87.5°	37.1	37.1	37.1	34.6	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)