

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: P476363

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476363
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-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: 3376.3 lumens
Efficiency: N/A
Efficacy: 107.9 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

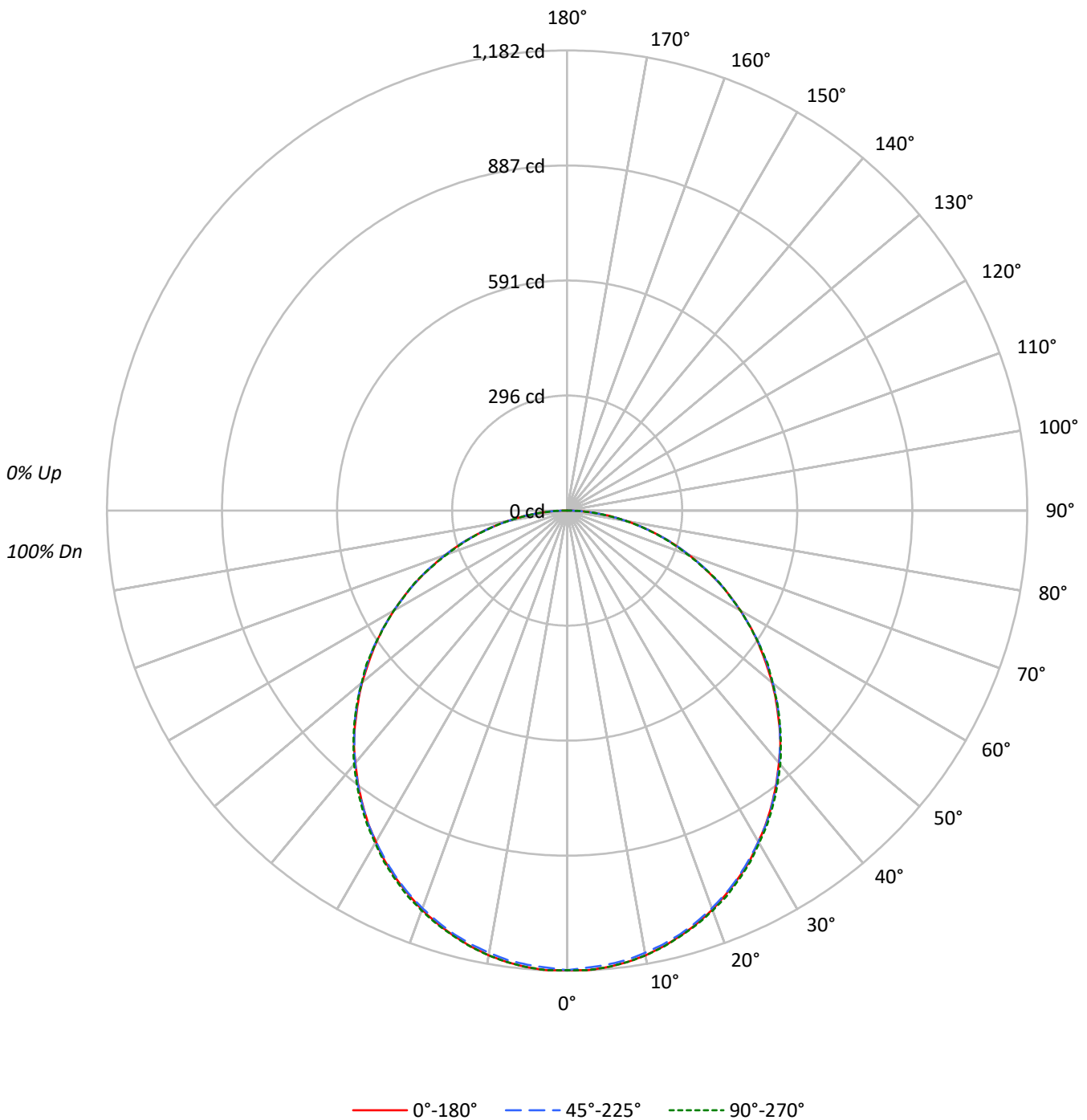
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3177	3177	3177
5°	3180	3163	3180
10°	3170	3152	3170
15°	3148	3136	3151
20°	3124	3113	3131
25°	3093	3086	3102
30°	3052	3052	3065
35°	3014	3017	3031
40°	2972	2976	2992
45°	2929	2937	2941
50°	2878	2887	2883
55°	2821	2836	2830
60°	2765	2765	2765
65°	2702	2702	2714
70°	2615	2615	2589
75°	2524	2513	2502
80°	2411	2394	2377
85°	2263	2235	2171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.3
10°-20°	318.6	9.4
20°-30°	480.2	14.2
30°-40°	575.4	17.0
40°-50°	595.1	17.6
50°-60°	539.6	16.0
60°-70°	419.3	12.4
70°-80°	256.1	7.6
80°-90°	80.2	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°	910.5	27.0
0°-40°	1485.9	44.0
0°-60°	2620.6	77.6
0°-90°	3376.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3376.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1177	1176	1171	1176	1177	112
15°	1130	1130	1126	1131	1131	319
25°	1042	1042	1039	1046	1045	480
35°	918	918	918	923	923	574
45°	770	771	772	773	773	594
55°	601	603	604	604	603	538
65°	424	424	424	422	426	419
75°	243	243	242	241	241	257
85°	73	71	72	70	70	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.7	1180.7	1180.7	1180.7	1180.7
2.5°	1181.8	1180.7	1175.2	1180.7	1181.8
5°	1177.4	1176.3	1171.1	1176.3	1177.4
7.5°	1170.1	1170.1	1164.6	1170.1	1170.1
10°	1160.2	1159.1	1153.6	1159.1	1160.2
12.5°	1146.3	1146.3	1140.8	1146.3	1147.4
15°	1129.9	1129.9	1125.8	1131.0	1131.0
17.5°	1111.5	1112.6	1107.4	1113.7	1113.7
20°	1091.0	1090.0	1086.9	1092.1	1093.2
22.5°	1066.4	1067.5	1064.3	1070.5	1071.6
25°	1041.6	1041.6	1039.4	1045.9	1044.8
27.5°	1014.5	1014.5	1011.2	1016.7	1017.8
30°	982.2	983.3	982.2	987.4	986.3
32.5°	951.9	953.0	953.0	955.2	956.3
35°	917.5	918.5	918.5	922.6	922.6
37.5°	882.7	882.7	883.8	887.1	887.1
40°	846.1	847.2	847.2	850.5	851.6
42.5°	810.6	808.4	809.5	812.7	812.7
45°	769.6	770.6	771.7	772.8	772.8
47.5°	728.5	730.7	731.8	732.9	731.8
50°	687.5	689.7	689.7	688.6	688.6
52.5°	643.3	648.7	647.6	647.6	649.8
55°	601.2	603.3	604.4	604.4	603.3
57.5°	559.1	561.2	559.1	560.1	558.0
60°	513.7	514.8	513.7	513.7	513.7
62.5°	469.4	470.5	468.3	468.3	468.3
65°	424.3	424.3	424.3	422.1	426.2
67.5°	376.7	378.9	378.9	380.0	375.6
70°	332.4	333.5	332.4	331.3	329.1
72.5°	288.1	289.2	290.3	286.0	284.9
75°	242.8	242.8	241.7	240.6	240.6
77.5°	198.5	198.5	198.5	196.6	196.6
80°	155.6	156.4	154.5	154.5	153.4
82.5°	113.5	113.5	113.5	112.4	110.2
85°	73.3	71.4	72.4	70.3	70.3
87.5°	33.4	33.4	33.4	31.2	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)