

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: P476354

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476354
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-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: 3258.1 lumens
Efficiency: N/A
Efficacy: 104.1 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

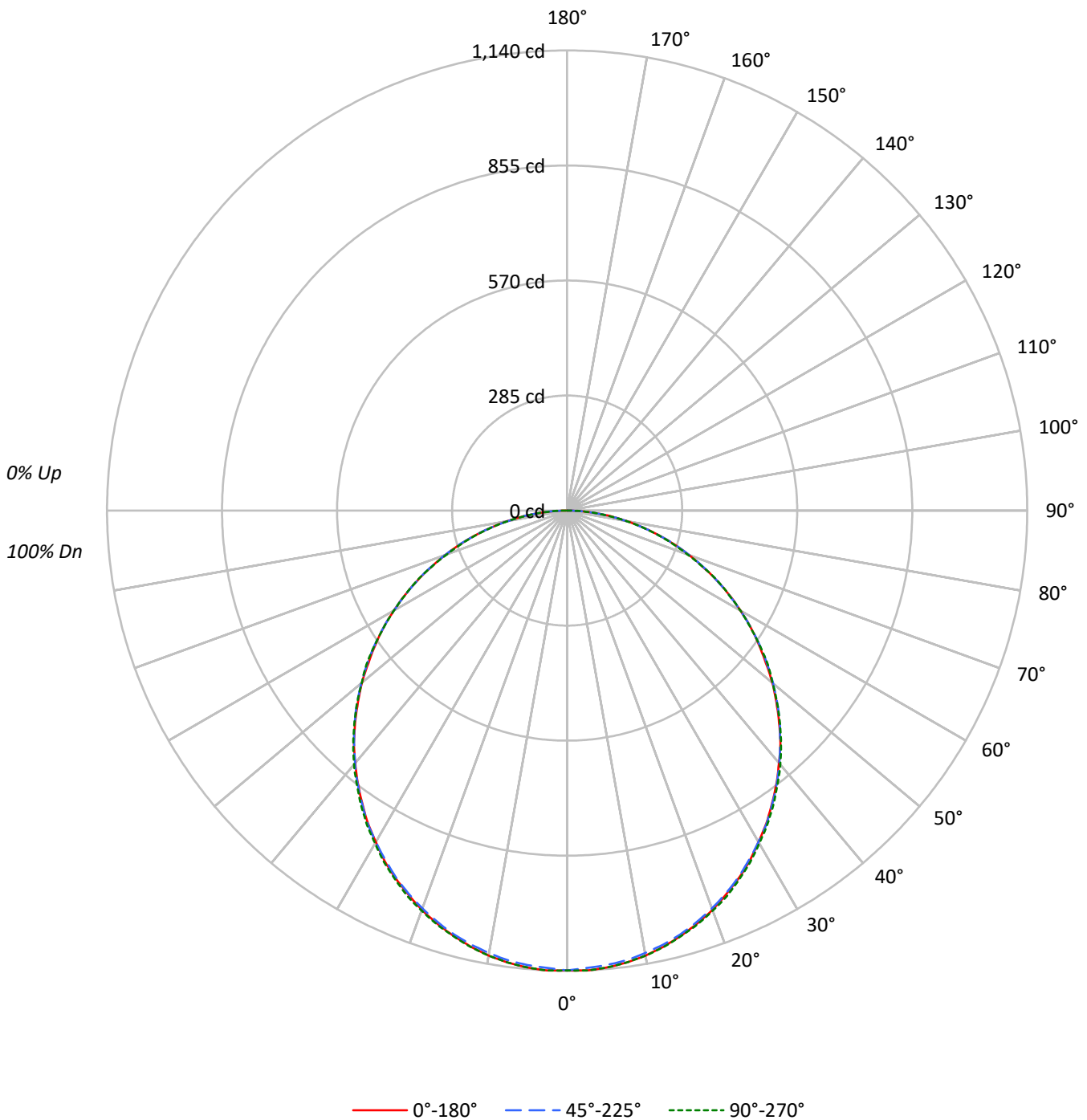
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3066	3066	3066
5°	3069	3053	3069
10°	3059	3042	3059
15°	3037	3027	3041
20°	3015	3004	3021
25°	2984	2978	2994
30°	2945	2945	2958
35°	2908	2912	2925
40°	2868	2872	2887
45°	2826	2834	2838
50°	2778	2786	2782
55°	2722	2737	2731
60°	2668	2668	2668
65°	2607	2607	2619
70°	2524	2524	2499
75°	2436	2425	2414
80°	2326	2311	2294
85°	2183	2158	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.3
10°-20°	307.5	9.4
20°-30°	463.4	14.2
30°-40°	555.3	17.0
40°-50°	574.3	17.6
50°-60°	520.7	16.0
60°-70°	404.6	12.4
70°-80°	247.1	7.6
80°-90°	77.4	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°	878.6	27.0
0°-40°	1434.0	44.0
0°-60°	2528.9	77.6
0°-90°	3258.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1136	1135	1130	1135	1136	108
15°	1090	1090	1086	1091	1091	308
25°	1005	1005	1003	1009	1008	463
35°	885	886	886	890	890	554
45°	743	744	745	746	746	573
55°	580	582	583	583	582	519
65°	409	409	409	407	411	404
75°	234	234	233	232	232	248
85°	71	69	70	68	68	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.4	1139.4	1139.4	1139.4	1139.4
2.5°	1140.4	1139.4	1134.1	1139.4	1140.4
5°	1136.2	1135.2	1130.2	1135.2	1136.2
7.5°	1129.1	1129.1	1123.8	1129.1	1129.1
10°	1119.6	1118.5	1113.3	1118.5	1119.6
12.5°	1106.1	1106.1	1100.9	1106.1	1107.2
15°	1090.3	1090.3	1086.4	1091.4	1091.4
17.5°	1072.6	1073.7	1068.7	1074.8	1074.8
20°	1052.9	1051.8	1048.9	1053.9	1055.0
22.5°	1029.1	1030.2	1027.0	1033.1	1034.1
25°	1005.1	1005.1	1003.0	1009.3	1008.3
27.5°	979.0	979.0	975.8	981.1	982.2
30°	947.9	948.9	947.9	952.9	951.8
32.5°	918.6	919.6	919.6	921.7	922.8
35°	885.3	886.4	886.4	890.4	890.4
37.5°	851.8	851.8	852.9	856.1	856.1
40°	816.5	817.5	817.5	820.7	821.8
42.5°	782.2	780.1	781.1	784.3	784.3
45°	742.6	743.7	744.7	745.8	745.8
47.5°	703.0	705.2	706.2	707.3	706.2
50°	663.5	665.6	665.6	664.5	664.5
52.5°	620.7	626.0	625.0	625.0	627.1
55°	580.1	582.2	583.3	583.3	582.2
57.5°	539.5	541.6	539.5	540.5	538.4
60°	495.7	496.8	495.7	495.7	495.7
62.5°	453.0	454.0	451.9	451.9	451.9
65°	409.4	409.4	409.4	407.3	411.3
67.5°	363.5	365.6	365.6	366.7	362.5
70°	320.8	321.8	320.8	319.7	317.6
72.5°	278.1	279.1	280.2	275.9	274.9
75°	234.3	234.3	233.2	232.2	232.2
77.5°	191.5	191.5	191.5	189.7	189.7
80°	150.1	150.9	149.1	149.1	148.0
82.5°	109.5	109.5	109.5	108.4	106.3
85°	70.7	68.9	69.9	67.8	67.8
87.5°	32.2	32.2	32.2	30.1	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)