

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: P476372

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476372  
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-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: 3440.4 lumens  
Efficiency: N/A  
Efficacy: 109.9 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

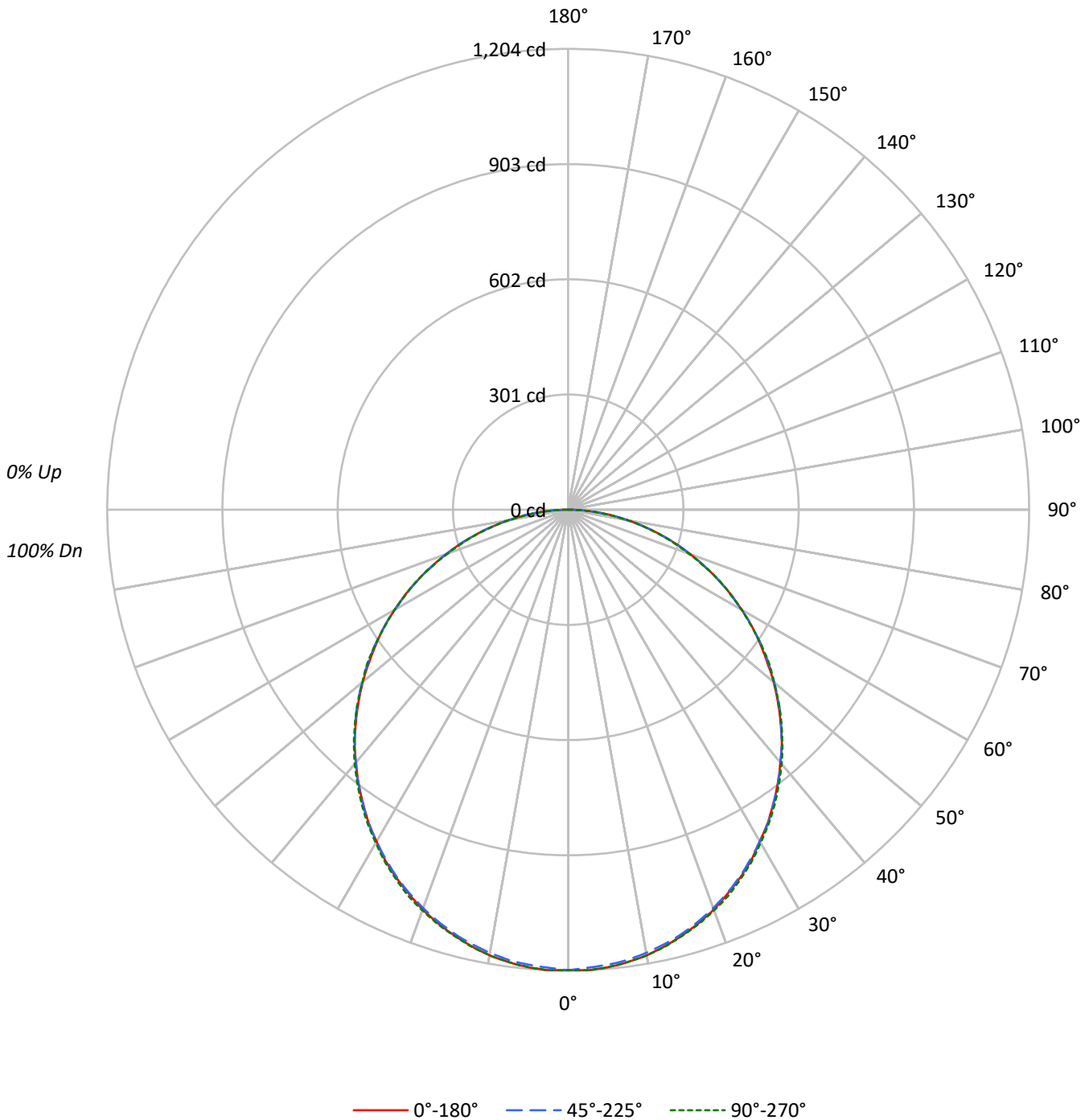
Input Watts (W): 31.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3238	3238	3238
5°	3241	3224	3241
10°	3231	3212	3231
15°	3207	3196	3210
20°	3184	3172	3190
25°	3151	3145	3161
30°	3110	3110	3123
35°	3071	3075	3089
40°	3029	3033	3048
45°	2984	2993	2997
50°	2933	2942	2938
55°	2874	2890	2884
60°	2817	2817	2817
65°	2753	2753	2765
70°	2665	2665	2639
75°	2572	2561	2548
80°	2456	2439	2422
85°	2306	2279	2211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	3.3
10°-20°	324.7	9.4
20°-30°	489.3	14.2
30°-40°	586.4	17.0
40°-50°	606.4	17.6
50°-60°	549.8	16.0
60°-70°	427.3	12.4
70°-80°	260.9	7.6
80°-90°	81.7	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°	927.8	27.0
0°-40°	1514.2	44.0
0°-60°	2670.4	77.6
0°-90°	3440.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1200	1199	1193	1199	1200	114
15°	1151	1151	1147	1152	1152	325
25°	1061	1061	1059	1066	1065	489
35°	935	936	936	940	940	585
45°	784	785	786	788	788	605
55°	613	615	616	616	615	548
65°	432	432	432	430	434	427
75°	247	247	246	245	245	262
85°	75	73	74	72	72	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1203.1	1203.1	1203.1	1203.1	1203.1
2.5°	1204.3	1203.1	1197.6	1203.1	1204.3
5°	1199.8	1198.7	1193.4	1198.7	1199.8
7.5°	1192.3	1192.3	1186.7	1192.3	1192.3
10°	1182.3	1181.1	1175.6	1181.1	1182.3
12.5°	1168.0	1168.0	1162.5	1168.0	1169.2
15°	1151.3	1151.3	1147.2	1152.4	1152.4
17.5°	1132.7	1133.8	1128.5	1134.9	1134.9
20°	1111.8	1110.7	1107.6	1112.9	1114.0
22.5°	1086.7	1087.8	1084.5	1090.9	1092.0
25°	1061.4	1061.4	1059.1	1065.8	1064.7
27.5°	1033.8	1033.8	1030.4	1036.0	1037.1
30°	1000.9	1002.0	1000.9	1006.2	1005.1
32.5°	970.0	971.1	971.1	973.3	974.4
35°	934.9	936.0	936.0	940.2	940.2
37.5°	899.5	899.5	900.6	904.0	904.0
40°	862.2	863.3	863.3	866.6	867.7
42.5°	826.0	823.7	824.8	828.2	828.2
45°	784.2	785.3	786.4	787.5	787.5
47.5°	742.4	744.6	745.7	746.8	745.7
50°	700.6	702.8	702.8	701.7	701.7
52.5°	655.5	661.0	659.9	659.9	662.2
55°	612.6	614.8	615.9	615.9	614.8
57.5°	569.7	571.9	569.7	570.8	568.6
60°	523.4	524.5	523.4	523.4	523.4
62.5°	478.3	479.4	477.2	477.2	477.2
65°	432.3	432.3	432.3	430.1	434.3
67.5°	383.9	386.1	386.1	387.2	382.8
70°	338.7	339.9	338.7	337.6	335.4
72.5°	293.6	294.7	295.8	291.4	290.3
75°	247.4	247.4	246.3	245.1	245.1
77.5°	202.2	202.2	202.2	200.3	200.3
80°	158.5	159.3	157.4	157.4	156.3
82.5°	115.6	115.6	115.6	114.5	112.3
85°	74.7	72.7	73.8	71.6	71.6
87.5°	34.0	34.0	34.0	31.8	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)