

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: P476370

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476370
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-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: 2816.8 lumens
Efficiency: N/A
Efficacy: 112.7 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

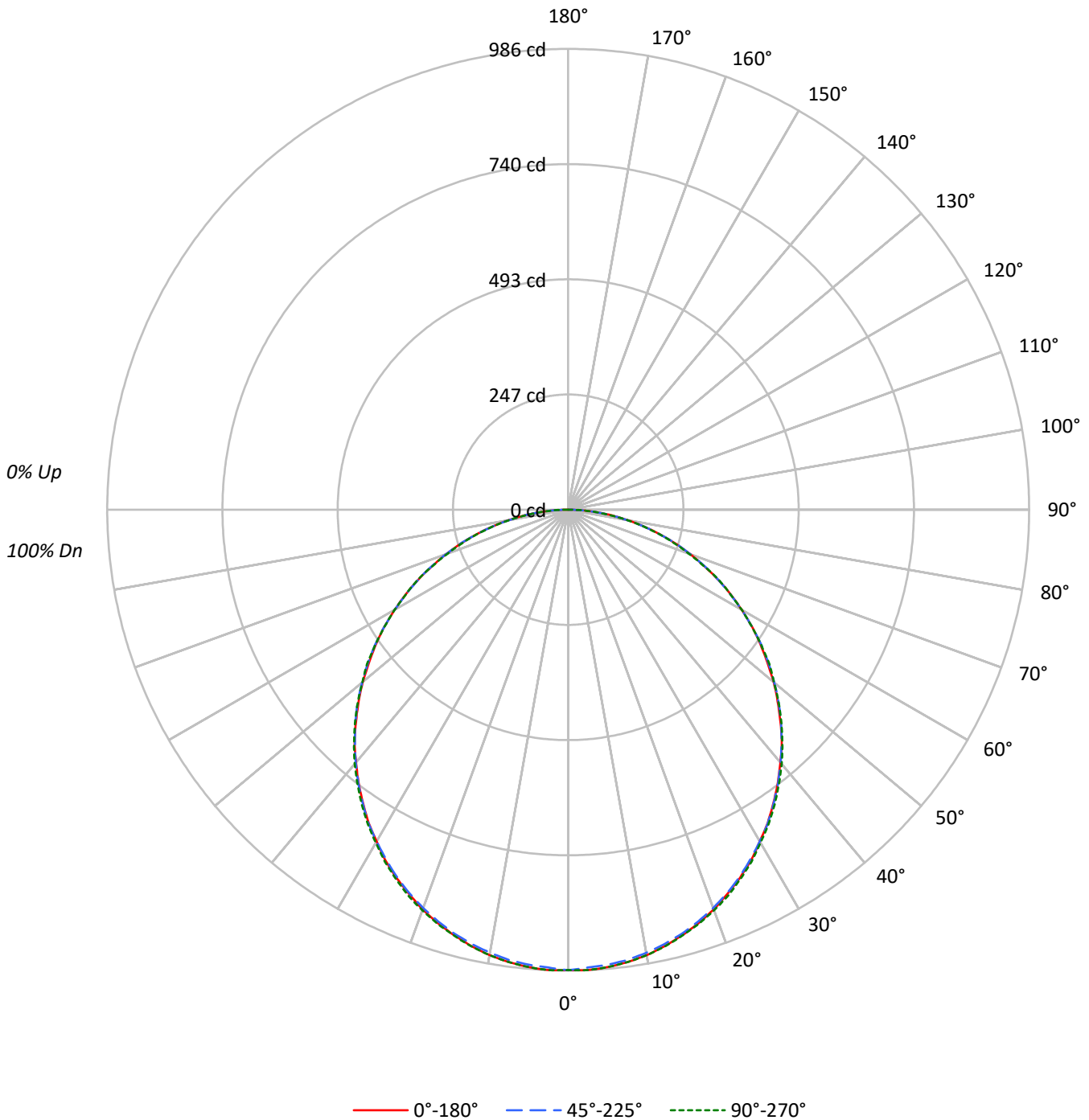
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2651	2651	2651
5°	2653	2639	2653
10°	2645	2630	2645
15°	2626	2617	2629
20°	2607	2597	2612
25°	2580	2575	2588
30°	2546	2546	2557
35°	2514	2517	2529
40°	2480	2483	2496
45°	2443	2450	2454
50°	2401	2409	2405
55°	2353	2366	2362
60°	2307	2307	2307
65°	2254	2254	2264
70°	2182	2182	2161
75°	2105	2096	2087
80°	2011	1998	1982
85°	1886	1865	1809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.3
10°-20°	265.8	9.4
20°-30°	400.6	14.2
30°-40°	480.1	17.0
40°-50°	496.5	17.6
50°-60°	450.2	16.0
60°-70°	349.8	12.4
70°-80°	213.7	7.6
80°-90°	66.9	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°	759.6	27.0
0°-40°	1239.7	44.0
0°-60°	2186.4	77.6
0°-90°	2816.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2816.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	982	981	977	981	982	93
15°	943	943	939	944	944	266
25°	869	869	867	873	872	400
35°	765	766	766	770	770	479
45°	642	643	644	645	645	495
55°	502	503	504	504	503	449
65°	354	354	354	352	356	350
75°	202	202	202	201	201	214
85°	61	60	60	59	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.1	985.1	985.1	985.1	985.1
2.5°	986.0	985.1	980.5	985.1	986.0
5°	982.3	981.4	977.1	981.4	982.3
7.5°	976.2	976.2	971.6	976.2	976.2
10°	967.9	967.0	962.5	967.0	967.9
12.5°	956.3	956.3	951.8	956.3	957.2
15°	942.6	942.6	939.2	943.5	943.5
17.5°	927.4	928.3	923.9	929.2	929.2
20°	910.2	909.3	906.8	911.2	912.1
22.5°	889.7	890.6	887.9	893.1	894.1
25°	869.0	869.0	867.1	872.6	871.7
27.5°	846.4	846.4	843.6	848.2	849.1
30°	819.5	820.4	819.5	823.8	822.9
32.5°	794.2	795.1	795.1	796.9	797.8
35°	765.4	766.3	766.3	769.8	769.8
37.5°	736.5	736.5	737.4	740.1	740.1
40°	705.9	706.8	706.8	709.5	710.5
42.5°	676.2	674.4	675.3	678.1	678.1
45°	642.0	642.9	643.9	644.8	644.8
47.5°	607.8	609.6	610.6	611.5	610.6
50°	573.6	575.4	575.4	574.5	574.5
52.5°	536.7	541.2	540.3	540.3	542.1
55°	501.5	503.4	504.3	504.3	503.4
57.5°	466.4	468.2	466.4	467.3	465.5
60°	428.6	429.5	428.6	428.6	428.6
62.5°	391.6	392.5	390.7	390.7	390.7
65°	354.0	354.0	354.0	352.1	355.6
67.5°	314.3	316.1	316.1	317.0	313.4
70°	277.3	278.3	277.3	276.4	274.6
72.5°	240.4	241.3	242.2	238.6	237.7
75°	202.5	202.5	201.6	200.7	200.7
77.5°	165.6	165.6	165.6	164.0	164.0
80°	129.8	130.5	128.9	128.9	127.9
82.5°	94.7	94.7	94.7	93.7	91.9
85°	61.1	59.5	60.4	58.6	58.6
87.5°	27.8	27.8	27.8	26.0	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)