

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: P476361

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476361
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-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: 2764.3 lumens
Efficiency: N/A
Efficacy: 110.6 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

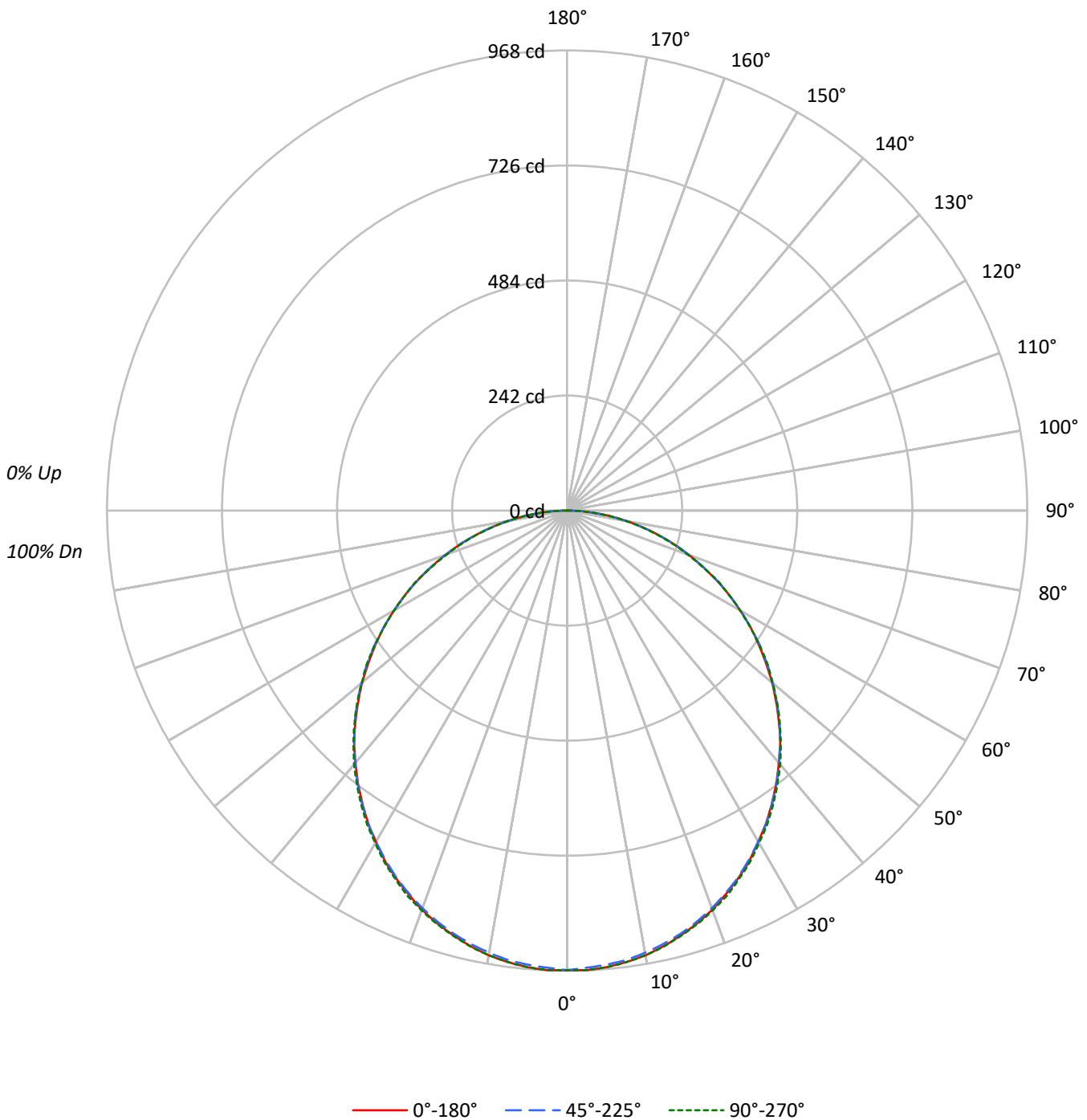
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2601	2601	2601
5°	2604	2590	2604
10°	2596	2581	2596
15°	2577	2568	2580
20°	2558	2548	2563
25°	2532	2527	2540
30°	2499	2499	2509
35°	2467	2470	2482
40°	2433	2436	2449
45°	2398	2404	2408
50°	2357	2364	2360
55°	2309	2322	2318
60°	2264	2264	2264
65°	2212	2212	2222
70°	2142	2142	2120
75°	2067	2058	2048
80°	1974	1960	1946
85°	1853	1831	1775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.3
10°-20°	260.9	9.4
20°-30°	393.2	14.2
30°-40°	471.1	17.0
40°-50°	487.2	17.6
50°-60°	441.8	16.0
60°-70°	343.3	12.4
70°-80°	209.7	7.6
80°-90°	65.7	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°	745.5	27.0
0°-40°	1216.6	44.0
0°-60°	2145.6	77.6
0°-90°	2764.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	964	963	959	963	964	92
15°	925	925	922	926	926	261
25°	853	853	851	856	855	393
35°	751	752	752	755	755	470
45°	630	631	632	633	633	486
55°	492	494	495	495	494	440
65°	347	347	347	346	349	343
75°	199	199	198	197	197	210
85°	60	58	59	58	58	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.7	966.7	966.7	966.7	966.7
2.5°	967.6	966.7	962.2	966.7	967.6
5°	964.0	963.1	958.9	963.1	964.0
7.5°	958.0	958.0	953.5	958.0	958.0
10°	949.9	949.0	944.5	949.0	949.9
12.5°	938.5	938.5	934.0	938.5	939.4
15°	925.1	925.1	921.7	926.0	926.0
17.5°	910.1	911.0	906.7	911.9	911.9
20°	893.3	892.4	889.9	894.2	895.1
22.5°	873.1	874.0	871.3	876.5	877.4
25°	852.8	852.8	851.0	856.3	855.4
27.5°	830.6	830.6	827.9	832.4	833.3
30°	804.2	805.1	804.2	808.4	807.5
32.5°	779.3	780.2	780.2	782.0	782.9
35°	751.1	752.0	752.0	755.4	755.4
37.5°	722.7	722.7	723.6	726.3	726.3
40°	692.7	693.6	693.6	696.3	697.2
42.5°	663.6	661.8	662.7	665.4	665.4
45°	630.1	631.0	631.8	632.7	632.7
47.5°	596.5	598.3	599.2	600.1	599.2
50°	562.9	564.7	564.7	563.8	563.8
52.5°	526.7	531.1	530.2	530.2	532.0
55°	492.2	494.0	494.9	494.9	494.0
57.5°	457.7	459.5	457.7	458.6	456.8
60°	420.6	421.5	420.6	420.6	420.6
62.5°	384.3	385.2	383.4	383.4	383.4
65°	347.4	347.4	347.4	345.6	348.9
67.5°	308.4	310.2	310.2	311.1	307.5
70°	272.2	273.1	272.2	271.3	269.5
72.5°	235.9	236.8	237.7	234.1	233.2
75°	198.8	198.8	197.9	197.0	197.0
77.5°	162.5	162.5	162.5	160.9	160.9
80°	127.4	128.0	126.5	126.5	125.6
82.5°	92.9	92.9	92.9	92.0	90.2
85°	60.0	58.4	59.3	57.5	57.5
87.5°	27.3	27.3	27.3	25.5	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)