

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: P291666

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2837.0 lumens
Efficiency: N/A
Efficacy: 76.3 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

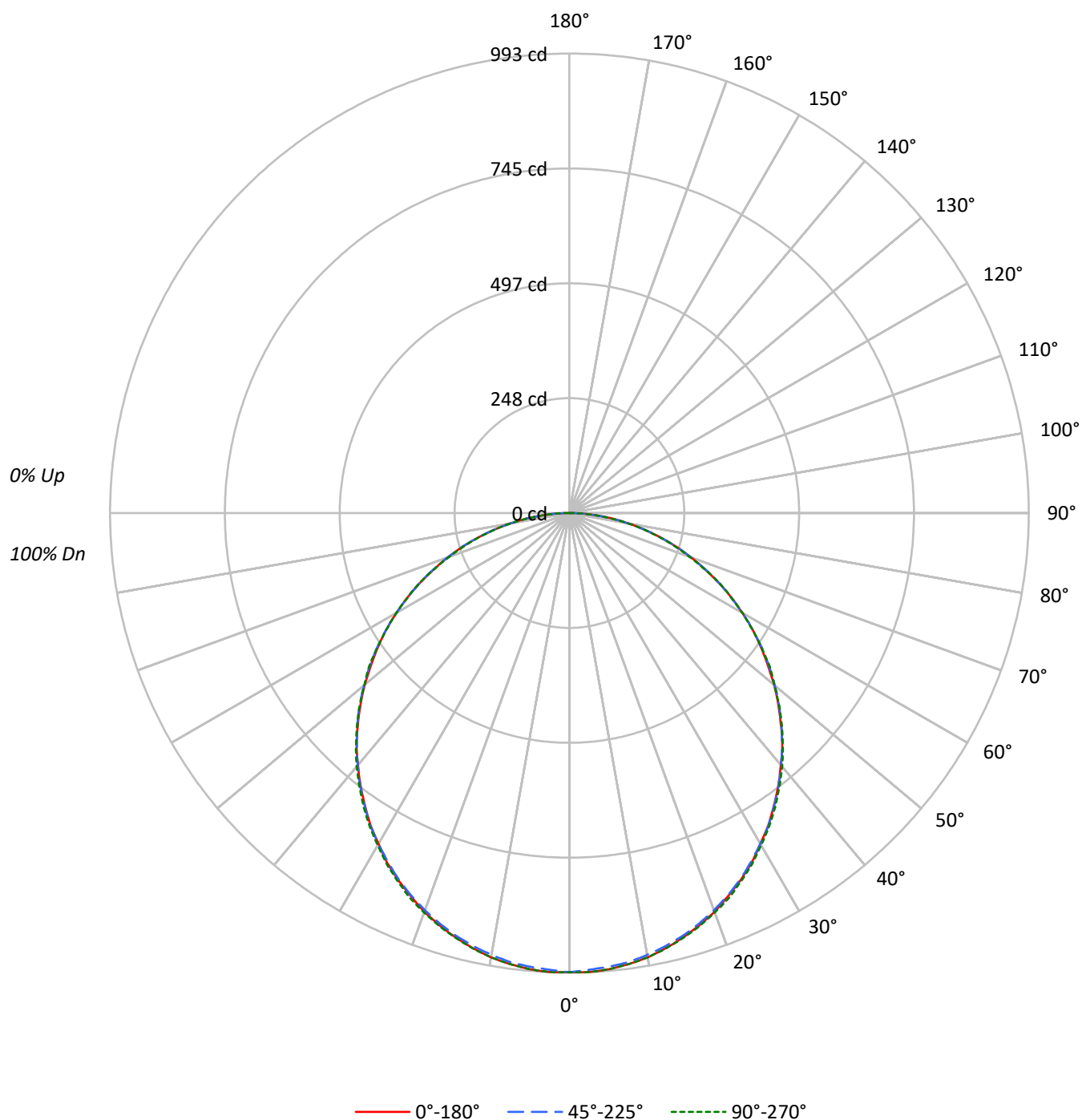
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2670	2670	2670
5°	2673	2658	2673
10°	2664	2649	2664
15°	2645	2635	2648
20°	2626	2615	2631
25°	2599	2593	2607
30°	2564	2564	2576
35°	2532	2535	2547
40°	2498	2501	2513
45°	2461	2468	2471
50°	2418	2426	2422
55°	2370	2383	2379
60°	2323	2323	2323
65°	2269	2269	2281
70°	2198	2198	2176
75°	2122	2112	2102
80°	2024	2010	1996
85°	1905	1877	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.3
10°-20°	267.8	9.4
20°-30°	403.5	14.2
30°-40°	483.6	17.0
40°-50°	500.0	17.6
50°-60°	453.4	16.0
60°-70°	352.3	12.4
70°-80°	215.2	7.6
80°-90°	67.4	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°	765.1	27.0
0°-40°	1248.7	44.0
0°-60°	2202.1	77.6
0°-90°	2837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	989	988	984	988	989	94
15°	950	950	946	950	950	268
25°	875	875	873	879	878	403
35°	771	772	772	775	775	482
45°	647	648	648	649	649	499
55°	505	507	508	508	507	452
65°	356	356	356	355	358	352
75°	204	204	203	202	202	216
85°	62	60	61	59	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.2	992.2	992.2	992.2	992.2
2.5°	993.1	992.2	987.6	992.2	993.1
5°	989.4	988.5	984.0	988.5	989.4
7.5°	983.1	983.1	978.6	983.1	983.1
10°	974.9	974.0	969.5	974.0	974.9
12.5°	963.1	963.1	958.6	963.1	964.0
15°	949.5	949.5	945.9	950.4	950.4
17.5°	934.1	935.0	930.5	935.9	935.9
20°	916.9	916.0	913.3	917.8	918.7
22.5°	896.0	896.9	894.2	899.7	900.6
25°	875.2	875.2	873.4	878.8	877.9
27.5°	852.5	852.5	849.8	854.3	855.2
30°	825.3	826.2	825.3	829.8	828.9
32.5°	799.9	800.8	800.8	802.6	803.5
35°	770.9	771.8	771.8	775.4	775.4
37.5°	741.8	741.8	742.8	745.5	745.5
40°	711.0	711.9	711.9	714.6	715.5
42.5°	681.1	679.3	680.2	682.9	682.9
45°	646.6	647.5	648.4	649.3	649.3
47.5°	612.2	614.0	614.9	615.8	614.9
50°	577.7	579.5	579.5	578.6	578.6
52.5°	540.5	545.1	544.1	544.1	546.0
55°	505.1	507.0	507.9	507.9	507.0
57.5°	469.8	471.6	469.8	470.7	468.9
60°	431.7	432.6	431.7	431.7	431.7
62.5°	394.5	395.4	393.6	393.6	393.6
65°	356.4	356.4	356.4	354.6	358.2
67.5°	316.5	318.3	318.3	319.2	315.6
70°	279.3	280.2	279.3	278.4	276.6
72.5°	242.1	243.1	244.0	240.3	239.4
75°	204.1	204.1	203.1	202.2	202.2
77.5°	166.9	166.9	166.9	165.1	165.1
80°	130.6	131.5	129.7	129.7	128.8
82.5°	95.2	95.2	95.2	94.3	92.5
85°	61.7	59.9	60.8	58.9	58.9
87.5°	28.1	28.1	28.1	26.3	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)