

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: P291664

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291664
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-LD5-40-FGW080-UNV-L93050-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2922.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

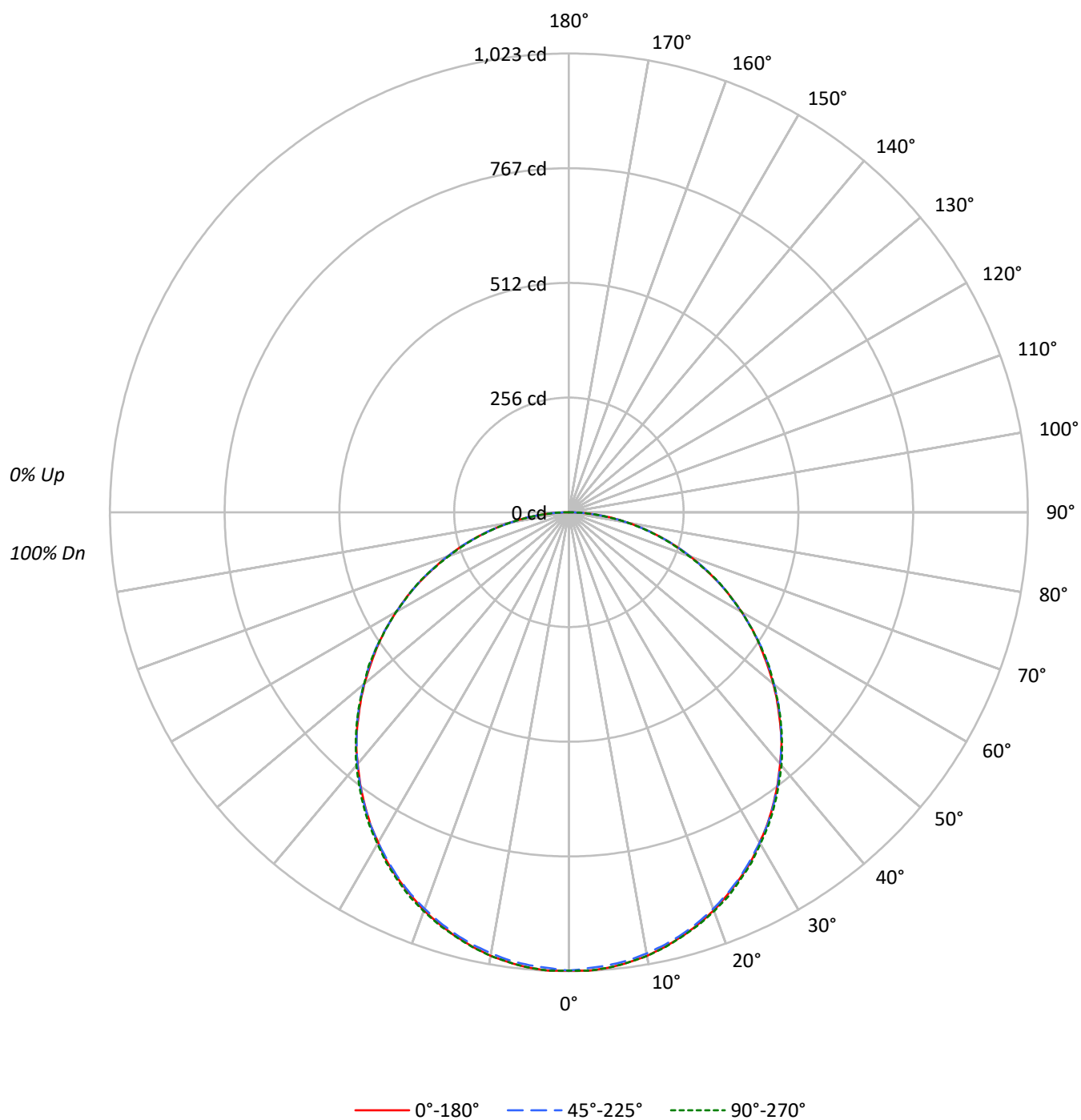
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2750	2750	2750
5°	2753	2738	2753
10°	2744	2728	2744
15°	2725	2714	2727
20°	2704	2694	2710
25°	2676	2671	2685
30°	2641	2641	2653
35°	2608	2611	2623
40°	2572	2576	2589
45°	2535	2542	2545
50°	2491	2499	2495
55°	2441	2454	2449
60°	2393	2393	2393
65°	2337	2337	2350
70°	2264	2264	2242
75°	2185	2175	2166
80°	2084	2070	2055
85°	1961	1933	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.3
10°-20°	275.8	9.4
20°-30°	415.6	14.2
30°-40°	498.0	17.0
40°-50°	515.0	17.6
50°-60°	467.0	16.0
60°-70°	362.9	12.4
70°-80°	221.7	7.6
80°-90°	69.4	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°	788.0	27.0
0°-40°	1286.1	44.0
0°-60°	2268.0	77.6
0°-90°	2922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1019	1018	1014	1018	1019	97
15°	978	978	974	979	979	276
25°	901	901	900	905	904	415
35°	794	795	795	799	799	497
45°	666	667	668	669	669	514
55°	520	522	523	523	522	465
65°	367	367	367	365	369	363
75°	210	210	209	208	208	222
85°	64	62	63	61	61	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1022.8	1021.9	1017.2	1021.9	1022.8
5°	1019.1	1018.1	1013.5	1018.1	1019.1
7.5°	1012.5	1012.5	1007.9	1012.5	1012.5
10°	1004.1	1003.2	998.5	1003.2	1004.1
12.5°	992.0	992.0	987.3	992.0	992.9
15°	978.0	978.0	974.2	978.9	978.9
17.5°	962.1	963.0	958.4	964.0	964.0
20°	944.4	943.4	940.6	945.3	946.2
22.5°	922.9	923.8	921.0	926.6	927.5
25°	901.4	901.4	899.5	905.1	904.2
27.5°	878.0	878.0	875.2	879.9	880.8
30°	850.0	850.9	850.0	854.7	853.7
32.5°	823.9	824.8	824.8	826.7	827.6
35°	794.0	794.9	794.9	798.6	798.6
37.5°	764.1	764.1	765.0	767.8	767.8
40°	732.3	733.3	733.3	736.1	737.0
42.5°	701.5	699.6	700.6	703.4	703.4
45°	666.0	666.9	667.9	668.8	668.8
47.5°	630.5	632.4	633.3	634.2	633.3
50°	595.0	596.9	596.9	595.9	595.9
52.5°	556.7	561.4	560.4	560.4	562.3
55°	520.3	522.1	523.1	523.1	522.1
57.5°	483.9	485.7	483.9	484.8	482.9
60°	444.6	445.6	444.6	444.6	444.6
62.5°	406.3	407.3	405.4	405.4	405.4
65°	367.1	367.1	367.1	365.2	369.0
67.5°	326.0	327.9	327.9	328.8	325.1
70°	287.7	288.6	287.7	286.8	284.9
72.5°	249.4	250.3	251.3	247.5	246.6
75°	210.2	210.2	209.2	208.3	208.3
77.5°	171.9	171.9	171.9	170.0	170.0
80°	134.5	135.4	133.6	133.6	132.6
82.5°	98.1	98.1	98.1	97.1	95.3
85°	63.5	61.6	62.6	60.7	60.7
87.5°	29.0	29.0	29.0	27.1	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)