

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: P291719

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291719
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-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2834.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

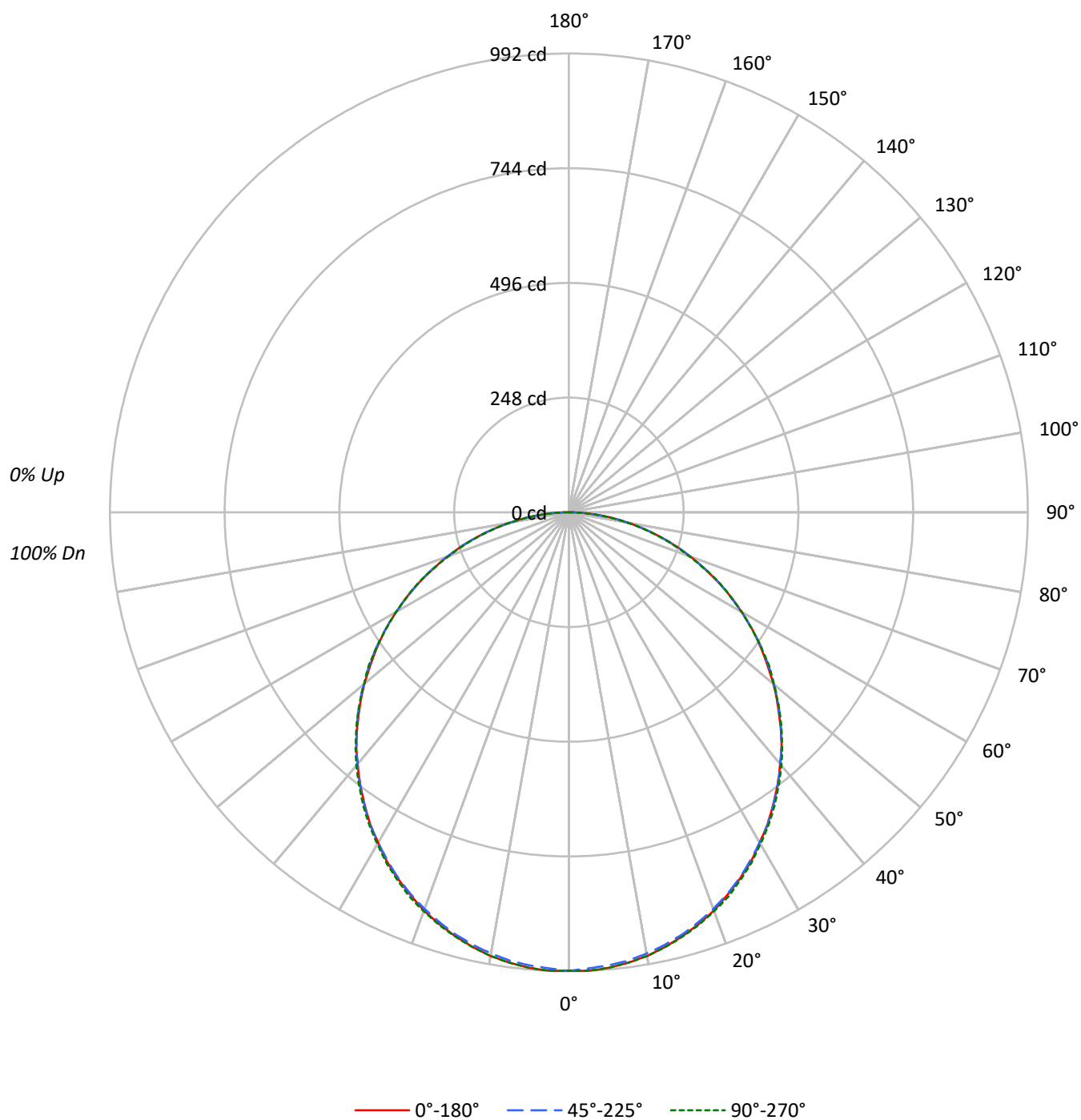
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2667	2667	2667
5°	2670	2655	2670
10°	2661	2646	2661
15°	2642	2632	2645
20°	2623	2613	2628
25°	2596	2590	2604
30°	2562	2562	2573
35°	2530	2533	2545
40°	2495	2498	2511
45°	2458	2465	2469
50°	2416	2424	2420
55°	2367	2380	2376
60°	2321	2321	2321
65°	2267	2267	2278
70°	2195	2195	2174
75°	2119	2110	2100
80°	2022	2008	1993
85°	1902	1874	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.3
10°-20°	267.5	9.4
20°-30°	403.1	14.2
30°-40°	483.1	17.0
40°-50°	499.5	17.6
50°-60°	452.9	16.0
60°-70°	352.0	12.4
70°-80°	215.0	7.6
80°-90°	67.3	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°	764.3	27.0
0°-40°	1247.3	44.0
0°-60°	2199.8	77.6
0°-90°	2834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	988	988	983	988	988	94
15°	948	948	945	949	949	268
25°	874	874	872	878	877	403
35°	770	771	771	775	775	482
45°	646	647	648	649	649	498
55°	505	506	507	507	506	451
65°	356	356	356	354	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°	991.1	991.1	991.1	991.1	991.1
2.5°	992.0	991.1	986.6	991.1	992.0
5°	988.4	987.5	983.0	987.5	988.4
7.5°	982.0	982.0	977.5	982.0	982.0
10°	973.9	973.0	968.5	973.0	973.9
12.5°	962.1	962.1	957.6	962.1	963.0
15°	948.5	948.5	944.9	949.4	949.4
17.5°	933.1	934.0	929.5	934.9	934.9
20°	915.9	915.0	912.3	916.8	917.7
22.5°	895.1	896.0	893.3	898.7	899.6
25°	874.2	874.2	872.4	877.9	877.0
27.5°	851.6	851.6	848.9	853.4	854.3
30°	824.4	825.3	824.4	828.9	828.0
32.5°	799.0	800.0	800.0	801.8	802.7
35°	770.1	771.0	771.0	774.6	774.6
37.5°	741.1	741.1	742.0	744.7	744.7
40°	710.3	711.2	711.2	713.9	714.8
42.5°	680.4	678.6	679.5	682.2	682.2
45°	645.9	646.8	647.8	648.7	648.7
47.5°	611.5	613.3	614.2	615.1	614.2
50°	577.1	578.9	578.9	578.0	578.0
52.5°	539.9	544.5	543.6	543.6	545.4
55°	504.6	506.4	507.3	507.3	506.4
57.5°	469.3	471.1	469.3	470.2	468.4
60°	431.2	432.1	431.2	431.2	431.2
62.5°	394.1	395.0	393.2	393.2	393.2
65°	356.0	356.0	356.0	354.2	357.8
67.5°	316.2	318.0	318.0	318.9	315.3
70°	279.0	279.9	279.0	278.1	276.3
72.5°	241.9	242.8	243.7	240.1	239.2
75°	203.8	203.8	202.9	202.0	202.0
77.5°	166.7	166.7	166.7	164.9	164.9
80°	130.5	131.4	129.6	129.6	128.6
82.5°	95.1	95.1	95.1	94.2	92.4
85°	61.6	59.8	60.7	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)