

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: P291660

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291660
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2434.0 lumens
Efficiency: N/A
Efficacy: 70.7 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

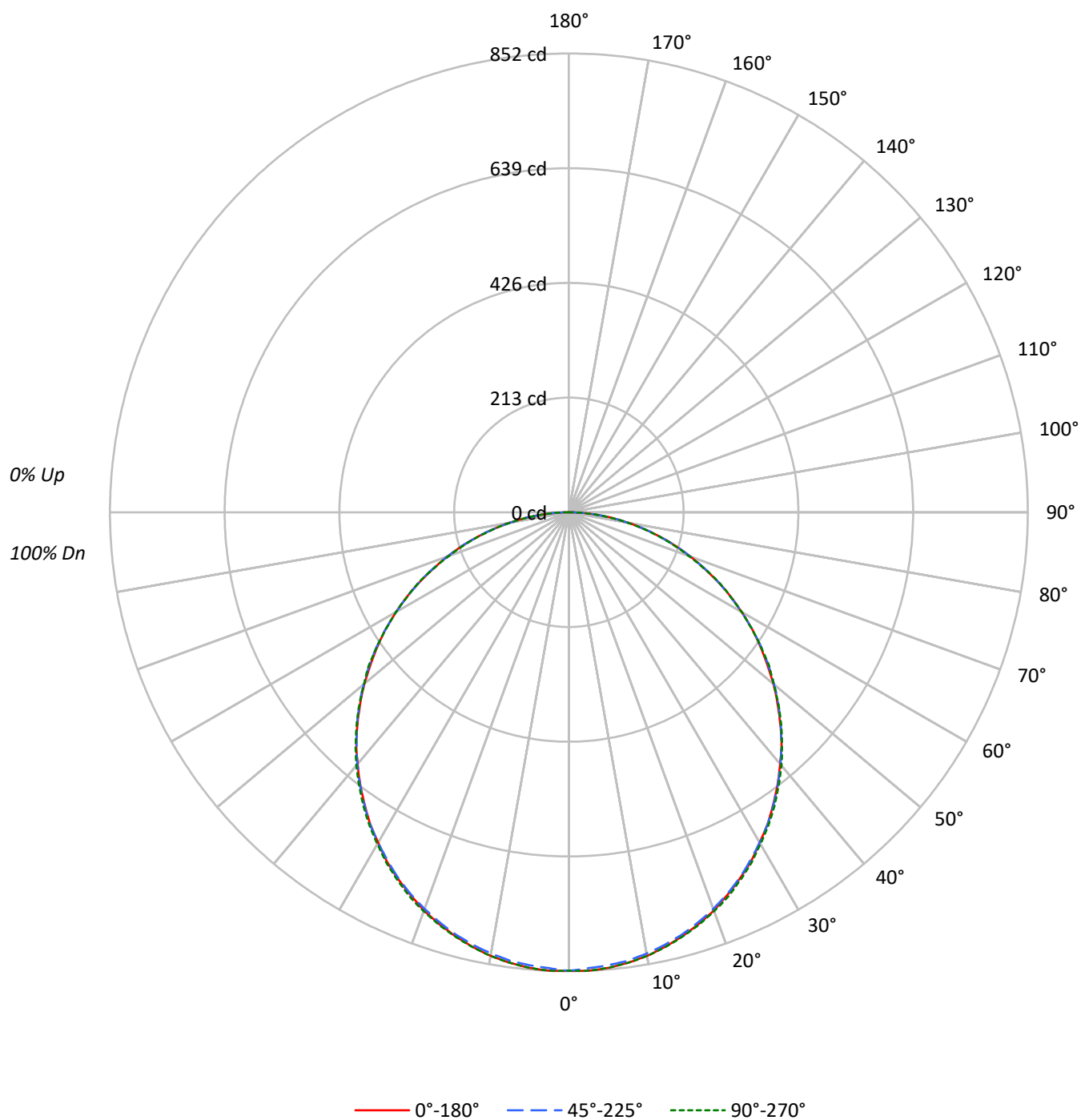
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2291	2291	2291
5°	2293	2280	2293
10°	2285	2273	2285
15°	2269	2261	2272
20°	2253	2244	2257
25°	2229	2225	2236
30°	2200	2200	2210
35°	2173	2175	2186
40°	2143	2146	2157
45°	2111	2117	2120
50°	2075	2081	2078
55°	2033	2044	2040
60°	1993	1993	1993
65°	1947	1947	1957
70°	1885	1885	1867
75°	1821	1812	1804
80°	1736	1725	1712
85°	1633	1609	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.3
10°-20°	229.7	9.4
20°-30°	346.2	14.2
30°-40°	414.9	17.0
40°-50°	429.0	17.6
50°-60°	389.0	16.0
60°-70°	302.3	12.4
70°-80°	184.6	7.6
80°-90°	57.8	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°	656.4	27.0
0°-40°	1071.3	44.0
0°-60°	1889.2	77.6
0°-90°	2434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	849	848	844	848	849	81
15°	815	815	812	815	815	230
25°	751	751	749	754	753	346
35°	661	662	662	665	665	414
45°	555	556	556	557	557	428
55°	433	435	436	436	435	388
65°	306	306	306	304	307	302
75°	175	175	174	174	174	185
85°	53	51	52	51	51	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.2	851.2	851.2	851.2	851.2
2.5°	852.0	851.2	847.3	851.2	852.0
5°	848.9	848.1	844.2	848.1	848.9
7.5°	843.4	843.4	839.5	843.4	843.4
10°	836.4	835.7	831.8	835.7	836.4
12.5°	826.3	826.3	822.4	826.3	827.1
15°	814.6	814.6	811.5	815.4	815.4
17.5°	801.4	802.2	798.3	803.0	803.0
20°	786.6	785.9	783.5	787.4	788.2
22.5°	768.7	769.5	767.2	771.9	772.6
25°	750.8	750.8	749.3	754.0	753.2
27.5°	731.4	731.4	729.1	733.0	733.7
30°	708.1	708.8	708.1	711.9	711.2
32.5°	686.3	687.0	687.0	688.6	689.4
35°	661.4	662.1	662.1	665.3	665.3
37.5°	636.5	636.5	637.2	639.6	639.6
40°	610.0	610.8	610.8	613.1	613.9
42.5°	584.3	582.8	583.6	585.9	585.9
45°	554.8	555.5	556.3	557.1	557.1
47.5°	525.2	526.8	527.5	528.3	527.5
50°	495.6	497.2	497.2	496.4	496.4
52.5°	463.7	467.6	466.8	466.8	468.4
55°	433.4	434.9	435.7	435.7	434.9
57.5°	403.0	404.6	403.0	403.8	402.3
60°	370.4	371.1	370.4	370.4	370.4
62.5°	338.5	339.2	337.7	337.7	337.7
65°	305.8	305.8	305.8	304.2	307.3
67.5°	271.5	273.1	273.1	273.9	270.8
70°	239.6	240.4	239.6	238.9	237.3
72.5°	207.7	208.5	209.3	206.2	205.4
75°	175.1	175.1	174.3	173.5	173.5
77.5°	143.2	143.2	143.2	141.6	141.6
80°	112.0	112.8	111.3	111.3	110.5
82.5°	81.7	81.7	81.7	80.9	79.4
85°	52.9	51.4	52.1	50.6	50.6
87.5°	24.1	24.1	24.1	22.6	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)