

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: P291718

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291718
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2763.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

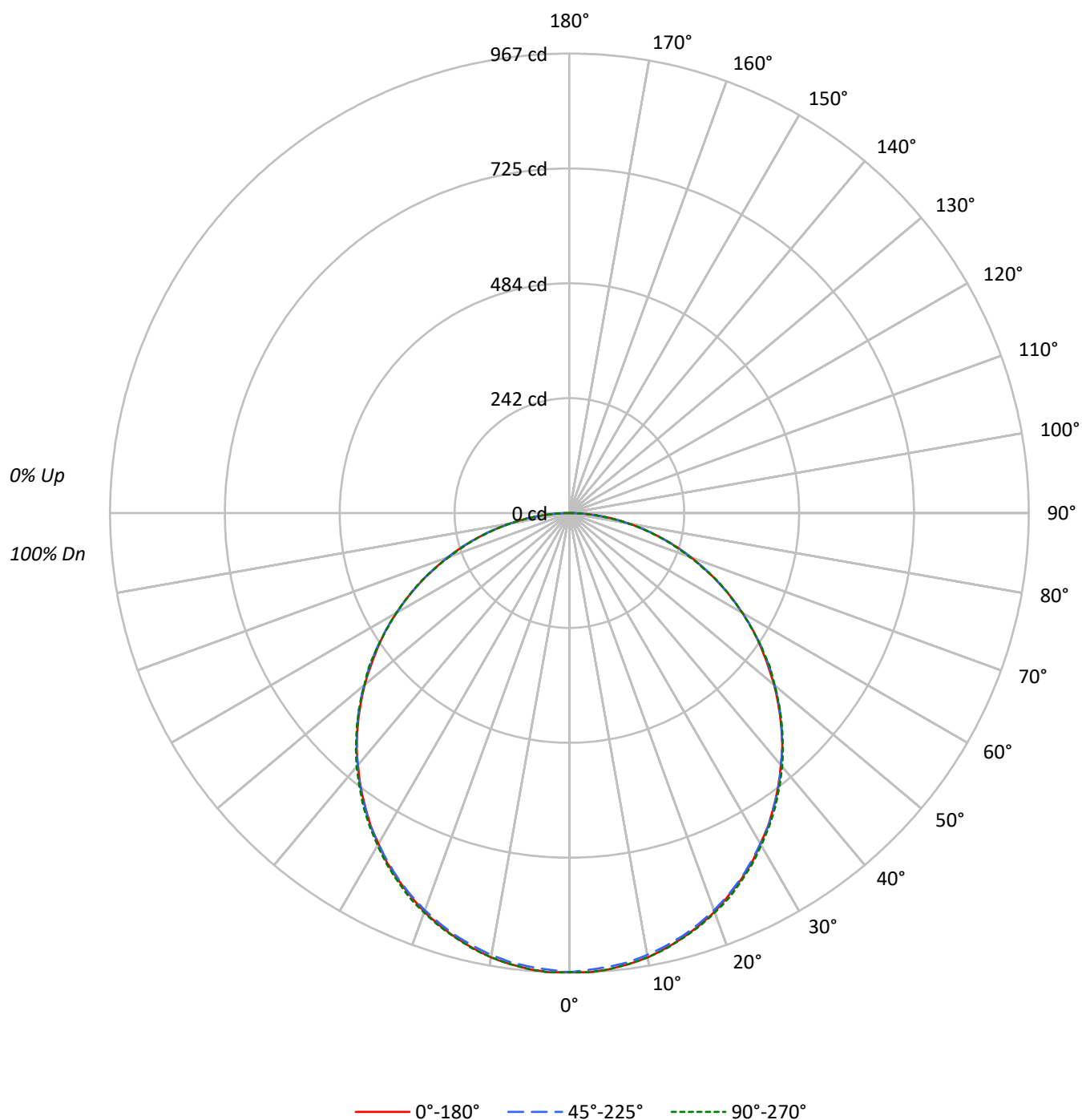
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2600	2600	2600
5°	2603	2589	2603
10°	2595	2580	2595
15°	2576	2566	2579
20°	2557	2547	2562
25°	2531	2526	2539
30°	2498	2498	2509
35°	2466	2469	2481
40°	2433	2436	2448
45°	2397	2403	2407
50°	2355	2363	2359
55°	2308	2320	2316
60°	2263	2263	2263
65°	2210	2210	2222
70°	2140	2140	2120
75°	2066	2057	2048
80°	1971	1957	1943
85°	1856	1828	1772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.3
10°-20°	260.8	9.4
20°-30°	393.0	14.2
30°-40°	470.9	17.0
40°-50°	487.0	17.6
50°-60°	441.6	16.0
60°-70°	343.2	12.4
70°-80°	209.6	7.6
80°-90°	65.6	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°	745.1	27.0
0°-40°	1216.1	44.0
0°-60°	2144.6	77.6
0°-90°	2763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	964	963	958	963	964	92
15°	925	925	921	926	926	261
25°	852	852	851	856	855	393
35°	751	752	752	755	755	470
45°	630	631	632	632	632	486
55°	492	494	495	495	494	440
65°	347	347	347	345	349	343
75°	199	199	198	197	197	210
85°	60	58	59	57	57	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.3	966.3	966.3	966.3	966.3
2.5°	967.2	966.3	961.9	966.3	967.2
5°	963.6	962.7	958.3	962.7	963.6
7.5°	957.4	957.4	953.0	957.4	957.4
10°	949.5	948.6	944.2	948.6	949.5
12.5°	938.0	938.0	933.6	938.0	938.9
15°	924.8	924.8	921.2	925.6	925.6
17.5°	909.7	910.6	906.2	911.5	911.5
20°	893.0	892.1	889.4	893.8	894.7
22.5°	872.7	873.5	870.9	876.2	877.1
25°	852.3	852.3	850.6	855.9	855.0
27.5°	830.3	830.3	827.6	832.0	832.9
30°	803.8	804.6	803.8	808.2	807.3
32.5°	779.0	779.9	779.9	781.7	782.6
35°	750.8	751.6	751.6	755.2	755.2
37.5°	722.5	722.5	723.4	726.0	726.0
40°	692.5	693.4	693.4	696.0	696.9
42.5°	663.3	661.6	662.4	665.1	665.1
45°	629.8	630.6	631.5	632.4	632.4
47.5°	596.2	598.0	598.8	599.7	598.8
50°	562.6	564.4	564.4	563.5	563.5
52.5°	526.4	530.8	530.0	530.0	531.7
55°	492.0	493.7	494.6	494.6	493.7
57.5°	457.5	459.3	457.5	458.4	456.6
60°	420.4	421.3	420.4	420.4	420.4
62.5°	384.2	385.1	383.3	383.3	383.3
65°	347.1	347.1	347.1	345.4	348.9
67.5°	308.3	310.0	310.0	310.9	307.4
70°	272.0	272.9	272.0	271.2	269.4
72.5°	235.8	236.7	237.6	234.1	233.2
75°	198.7	198.7	197.8	197.0	197.0
77.5°	162.5	162.5	162.5	160.8	160.8
80°	127.2	128.1	126.3	126.3	125.4
82.5°	92.7	92.7	92.7	91.9	90.1
85°	60.1	58.3	59.2	57.4	57.4
87.5°	27.4	27.4	27.4	25.6	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)