

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: P291658

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291658
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-LD5-36-FGW080-UNV-L93050-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: 2611.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

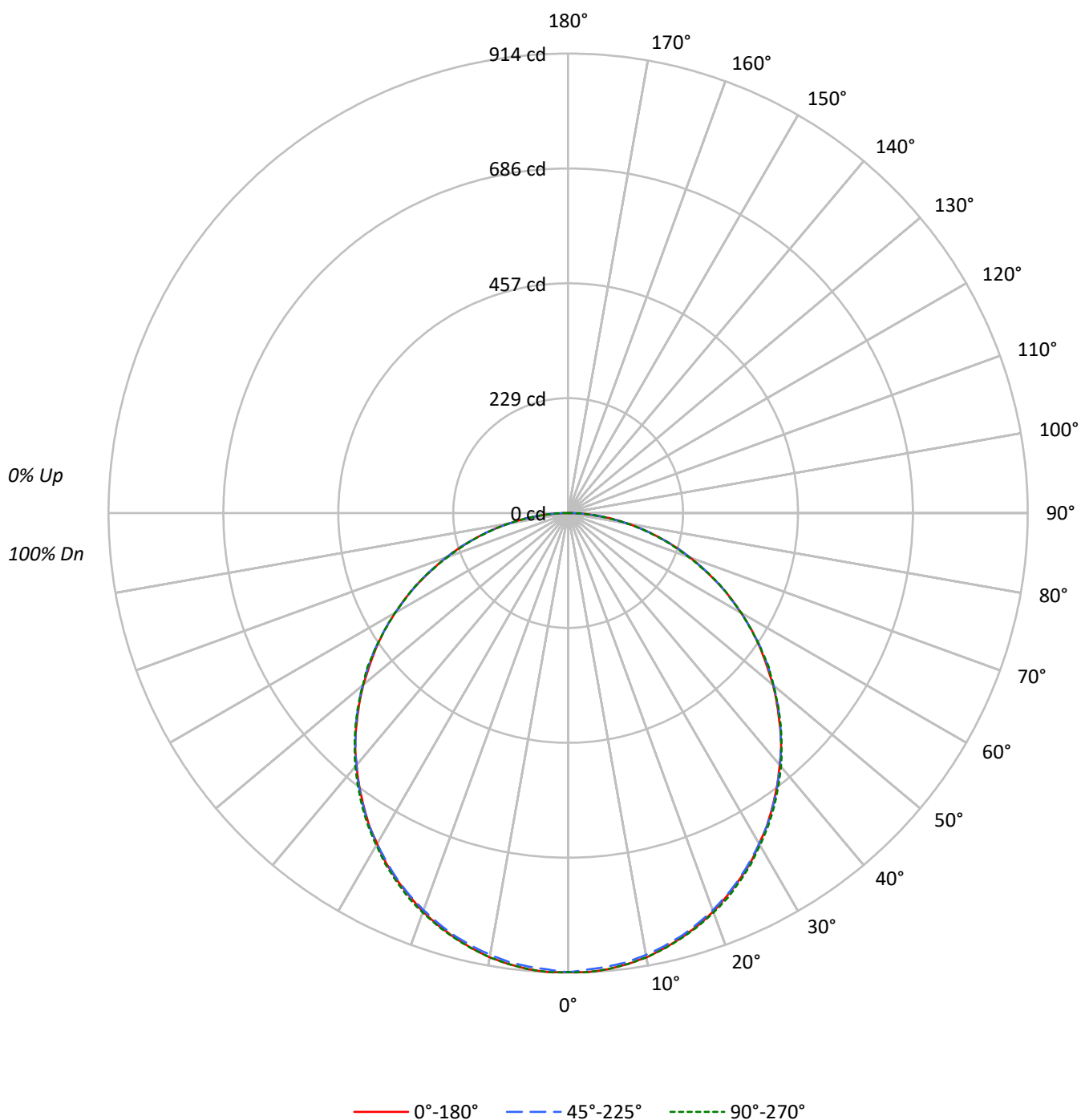
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2457	2457	2457
5°	2460	2446	2460
10°	2452	2438	2452
15°	2435	2425	2437
20°	2416	2407	2421
25°	2391	2387	2399
30°	2360	2360	2371
35°	2331	2333	2344
40°	2299	2302	2313
45°	2265	2271	2274
50°	2226	2233	2229
55°	2181	2193	2189
60°	2138	2138	2138
65°	2089	2089	2099
70°	2023	2023	2003
75°	1953	1944	1935
80°	1863	1850	1836
85°	1754	1726	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.3
10°-20°	246.4	9.4
20°-30°	371.4	14.2
30°-40°	445.0	17.0
40°-50°	460.2	17.6
50°-60°	417.3	16.0
60°-70°	324.3	12.4
70°-80°	198.1	7.6
80°-90°	62.0	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°	704.1	27.0
0°-40°	1149.2	44.0
0°-60°	2026.7	77.6
0°-90°	2611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	911	910	906	910	911	86
15°	874	874	871	875	875	247
25°	805	805	804	809	808	371
35°	710	710	710	714	714	444
45°	595	596	597	598	598	459
55°	465	467	467	467	467	416
65°	328	328	328	326	330	324
75°	188	188	187	186	186	199
85°	57	55	56	54	54	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.1	913.1	913.1	913.1	913.1
2.5°	914.0	913.1	908.9	913.1	914.0
5°	910.6	909.8	905.6	909.8	910.6
7.5°	904.8	904.8	900.6	904.8	904.8
10°	897.3	896.4	892.3	896.4	897.3
12.5°	886.4	886.4	882.2	886.4	887.2
15°	873.9	873.9	870.6	874.7	874.7
17.5°	859.7	860.5	856.4	861.4	861.4
20°	843.8	843.0	840.5	844.7	845.5
22.5°	824.6	825.5	823.0	828.0	828.8
25°	805.4	805.4	803.8	808.8	808.0
27.5°	784.6	784.6	782.1	786.3	787.1
30°	759.5	760.4	759.5	763.7	762.9
32.5°	736.2	737.0	737.0	738.7	739.5
35°	709.5	710.3	710.3	713.6	713.6
37.5°	682.8	682.8	683.6	686.1	686.1
40°	654.4	655.2	655.2	657.7	658.5
42.5°	626.8	625.2	626.0	628.5	628.5
45°	595.1	595.9	596.8	597.6	597.6
47.5°	563.4	565.1	565.9	566.7	565.9
50°	531.7	533.3	533.3	532.5	532.5
52.5°	497.5	501.6	500.8	500.8	502.5
55°	464.9	466.6	467.4	467.4	466.6
57.5°	432.4	434.0	432.4	433.2	431.5
60°	397.3	398.1	397.3	397.3	397.3
62.5°	363.1	363.9	362.2	362.2	362.2
65°	328.0	328.0	328.0	326.4	329.7
67.5°	291.3	293.0	293.0	293.8	290.5
70°	257.1	257.9	257.1	256.2	254.6
72.5°	222.9	223.7	224.5	221.2	220.4
75°	187.8	187.8	187.0	186.1	186.1
77.5°	153.6	153.6	153.6	151.9	151.9
80°	120.2	121.0	119.4	119.4	118.5
82.5°	87.6	87.6	87.6	86.8	85.1
85°	56.8	55.1	55.9	54.3	54.3
87.5°	25.9	25.9	25.9	24.2	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)