

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: P291665

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291665
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-LD5-43-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: 2596.0 lumens
Efficiency: N/A
Efficacy: 69.4 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

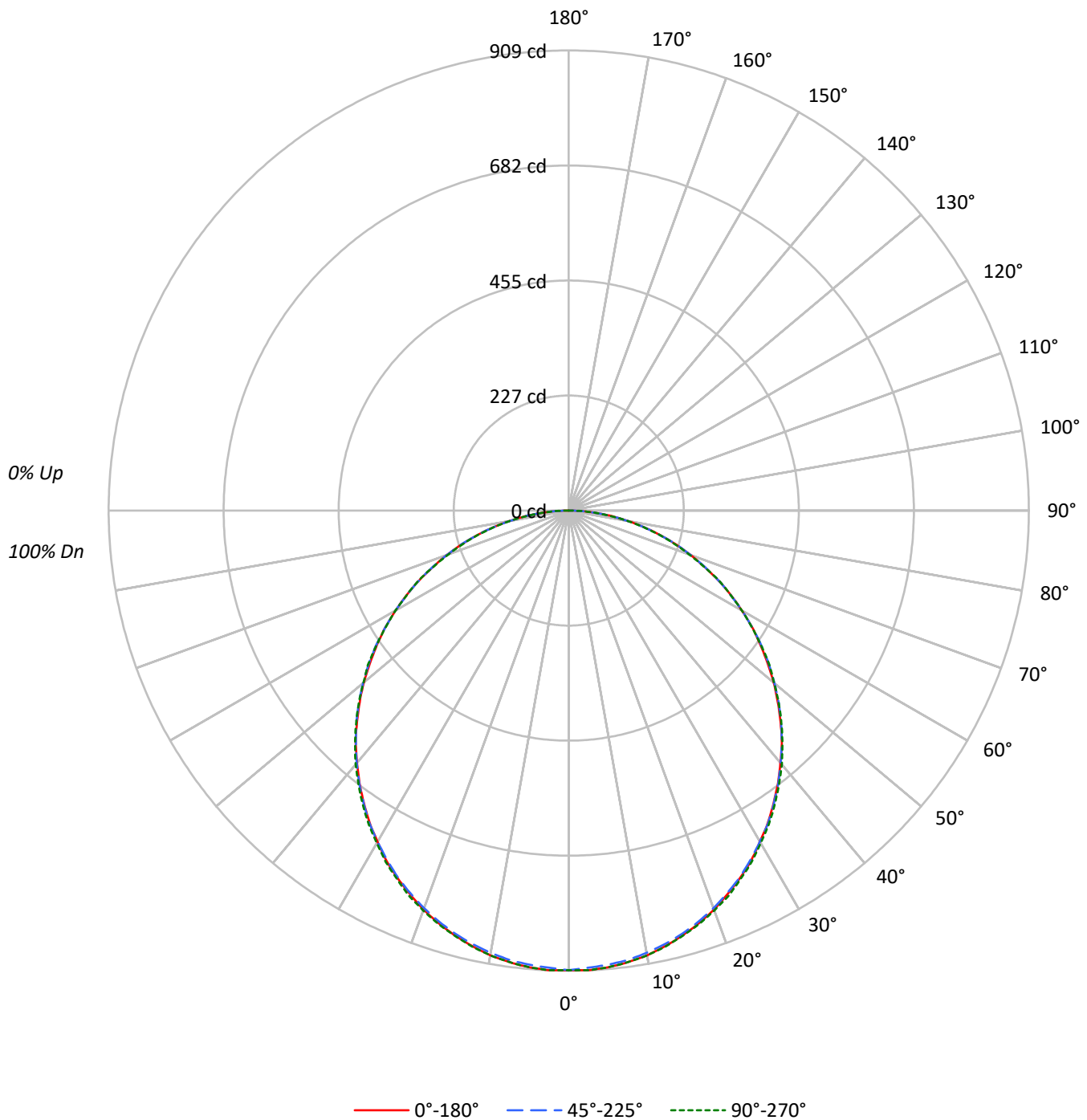
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2443	2443	2443
5°	2446	2432	2446
10°	2438	2424	2438
15°	2421	2411	2423
20°	2403	2393	2407
25°	2378	2373	2385
30°	2347	2347	2357
35°	2317	2320	2331
40°	2285	2288	2300
45°	2252	2258	2261
50°	2213	2220	2217
55°	2168	2180	2176
60°	2126	2126	2126
65°	2076	2076	2087
70°	2011	2011	1991
75°	1941	1933	1925
80°	1852	1839	1826
85°	1741	1717	1664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.3
10°-20°	245.0	9.4
20°-30°	369.2	14.2
30°-40°	442.5	17.0
40°-50°	457.5	17.6
50°-60°	414.9	16.0
60°-70°	322.4	12.4
70°-80°	196.9	7.6
80°-90°	61.6	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°	700.1	27.0
0°-40°	1142.6	44.0
0°-60°	2015.0	77.6
0°-90°	2596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	905	905	900	905	905	86
15°	869	869	866	870	870	245
25°	801	801	799	804	803	369
35°	705	706	706	710	710	441
45°	592	592	593	594	594	457
55°	462	464	465	465	464	413
65°	326	326	326	324	328	322
75°	187	187	186	185	185	197
85°	56	55	56	54	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.9	907.9	907.9	907.9	907.9
2.5°	908.7	907.9	903.7	907.9	908.7
5°	905.4	904.6	900.4	904.6	905.4
7.5°	899.6	899.6	895.4	899.6	899.6
10°	892.1	891.3	887.1	891.3	892.1
12.5°	881.3	881.3	877.2	881.3	882.1
15°	868.9	868.9	865.5	869.7	869.7
17.5°	854.8	855.6	851.4	856.4	856.4
20°	839.0	838.2	835.7	839.8	840.7
22.5°	819.9	820.7	818.2	823.2	824.1
25°	800.8	800.8	799.2	804.1	803.3
27.5°	780.1	780.1	777.6	781.7	782.6
30°	755.2	756.0	755.2	759.3	758.5
32.5°	731.9	732.8	732.8	734.4	735.3
35°	705.4	706.2	706.2	709.5	709.5
37.5°	678.8	678.8	679.7	682.1	682.1
40°	650.6	651.4	651.4	653.9	654.8
42.5°	623.2	621.6	622.4	624.9	624.9
45°	591.7	592.5	593.4	594.2	594.2
47.5°	560.2	561.8	562.6	563.5	562.6
50°	528.6	530.3	530.3	529.5	529.5
52.5°	494.6	498.7	497.9	497.9	499.6
55°	462.2	463.9	464.7	464.7	463.9
57.5°	429.9	431.5	429.9	430.7	429.0
60°	395.0	395.8	395.0	395.0	395.0
62.5°	361.0	361.8	360.2	360.2	360.2
65°	326.1	326.1	326.1	324.5	327.8
67.5°	289.6	291.3	291.3	292.1	288.8
70°	255.6	256.4	255.6	254.8	253.1
72.5°	221.6	222.4	223.2	219.9	219.1
75°	186.7	186.7	185.9	185.1	185.1
77.5°	152.7	152.7	152.7	151.0	151.0
80°	119.5	120.3	118.7	118.7	117.8
82.5°	87.1	87.1	87.1	86.3	84.6
85°	56.4	54.8	55.6	53.9	53.9
87.5°	25.7	25.7	25.7	24.1	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)