

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: P291726

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291726
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-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2855.0 lumens
Efficiency: N/A
Efficacy: 77.9 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

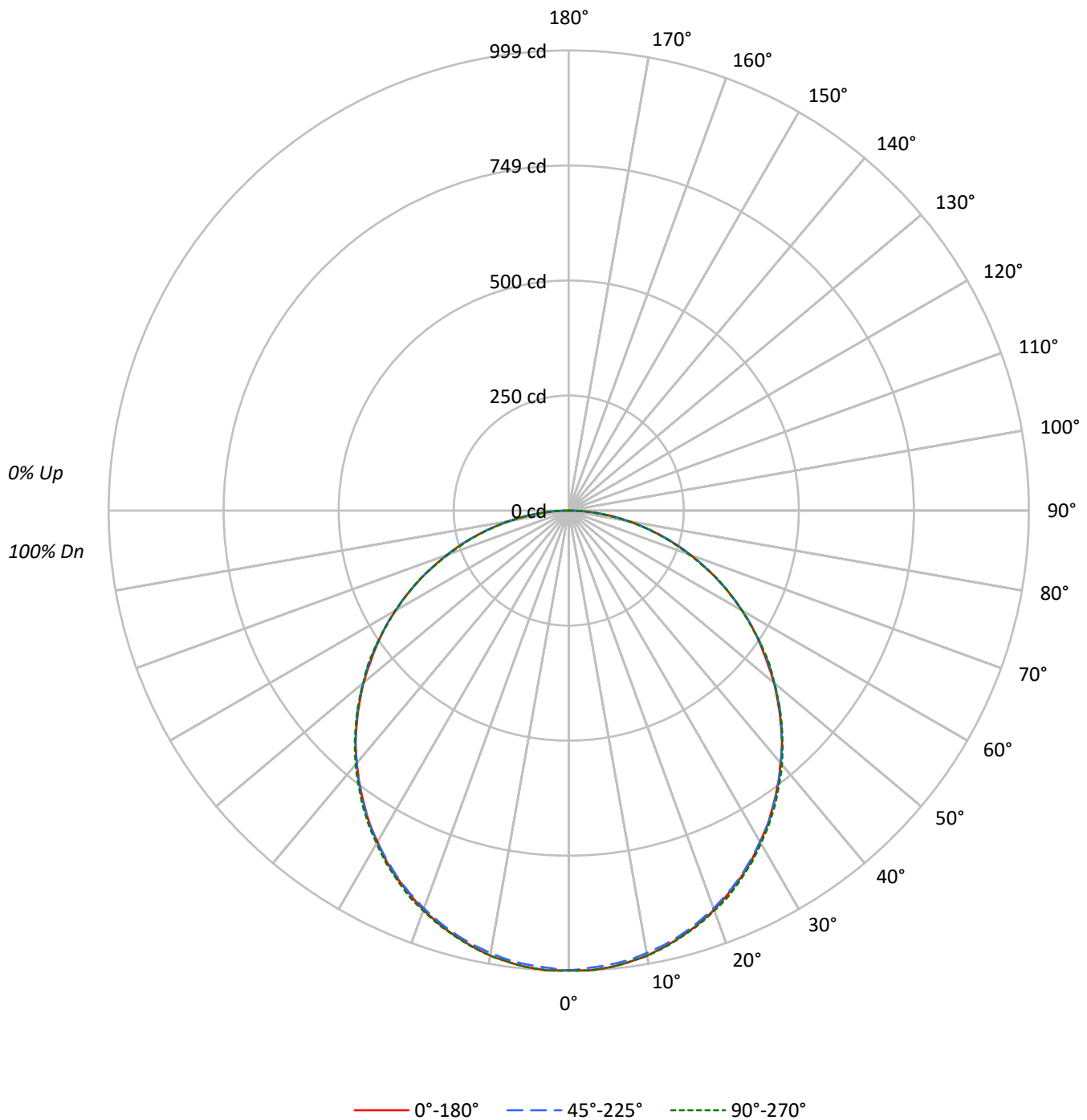
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2687	2687	2687
5°	2690	2675	2690
10°	2681	2666	2681
15°	2662	2652	2665
20°	2642	2632	2647
25°	2615	2610	2623
30°	2581	2581	2592
35°	2549	2552	2563
40°	2513	2517	2530
45°	2476	2484	2487
50°	2434	2442	2438
55°	2385	2398	2394
60°	2338	2338	2338
65°	2284	2284	2295
70°	2212	2212	2190
75°	2135	2125	2116
80°	2036	2022	2008
85°	1917	1886	1831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.3
10°-20°	269.5	9.4
20°-30°	406.1	14.2
30°-40°	486.6	17.0
40°-50°	503.2	17.6
50°-60°	456.3	16.0
60°-70°	354.6	12.4
70°-80°	216.6	7.6
80°-90°	67.8	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°	769.9	27.0
0°-40°	1256.6	44.0
0°-60°	2216.1	77.6
0°-90°	2855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	996	995	990	995	996	95
15°	956	956	952	956	956	270
25°	881	881	879	884	884	406
35°	776	777	777	780	780	486
45°	651	652	653	654	654	502
55°	508	510	511	511	510	455
65°	359	359	359	357	360	354
75°	205	205	204	204	204	217
85°	62	60	61	59	59	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.5	998.5	998.5	998.5	998.5
2.5°	999.4	998.5	993.9	998.5	999.4
5°	995.7	994.8	990.2	994.8	995.7
7.5°	989.3	989.3	984.8	989.3	989.3
10°	981.1	980.2	975.6	980.2	981.1
12.5°	969.2	969.2	964.7	969.2	970.2
15°	955.6	955.6	951.9	956.5	956.5
17.5°	940.0	941.0	936.4	941.9	941.9
20°	922.7	921.8	919.0	923.6	924.5
22.5°	901.7	902.6	899.9	905.4	906.3
25°	880.7	880.7	878.9	884.4	883.5
27.5°	857.9	857.9	855.2	859.7	860.6
30°	830.5	831.4	830.5	835.1	834.2
32.5°	805.0	805.9	805.9	807.7	808.6
35°	775.8	776.7	776.7	780.3	780.3
37.5°	746.6	746.6	747.5	750.2	750.2
40°	715.5	716.4	716.4	719.2	720.1
42.5°	685.4	683.6	684.5	687.2	687.2
45°	650.7	651.6	652.6	653.5	653.5
47.5°	616.0	617.9	618.8	619.7	618.8
50°	581.4	583.2	583.2	582.3	582.3
52.5°	543.9	548.5	547.6	547.6	549.4
55°	508.4	510.2	511.1	511.1	510.2
57.5°	472.8	474.6	472.8	473.7	471.8
60°	434.4	435.3	434.4	434.4	434.4
62.5°	397.0	397.9	396.1	396.1	396.1
65°	358.7	358.7	358.7	356.9	360.5
67.5°	318.5	320.3	320.3	321.3	317.6
70°	281.1	282.0	281.1	280.2	278.4
72.5°	243.7	244.6	245.5	241.9	240.9
75°	205.3	205.3	204.4	203.5	203.5
77.5°	167.9	167.9	167.9	166.1	166.1
80°	131.4	132.3	130.5	130.5	129.6
82.5°	95.8	95.8	95.8	94.9	93.1
85°	62.1	60.2	61.1	59.3	59.3
87.5°	28.3	28.3	28.3	26.5	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)