

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: P291605

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291605
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-LD5-32-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2600.0 lumens
Efficiency: N/A
Efficacy: 98.4 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

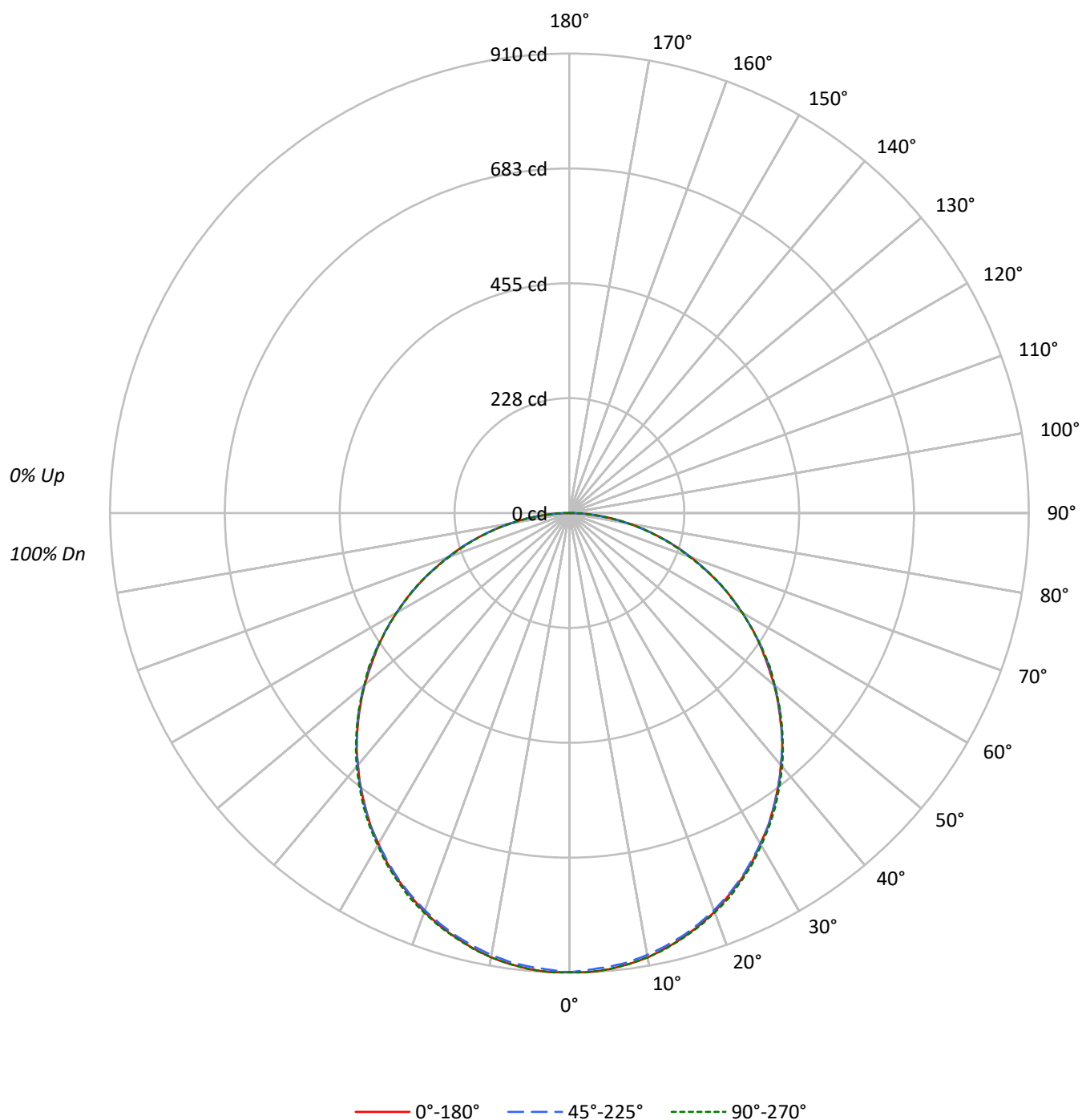
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2447	2447	2447
5°	2450	2436	2450
10°	2441	2428	2441
15°	2424	2415	2427
20°	2406	2397	2411
25°	2382	2377	2389
30°	2350	2350	2361
35°	2321	2324	2334
40°	2289	2292	2304
45°	2255	2262	2265
50°	2216	2223	2220
55°	2172	2183	2180
60°	2129	2129	2129
65°	2080	2080	2090
70°	2014	2014	1995
75°	1944	1936	1927
80°	1855	1843	1829
85°	1744	1720	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.3
10°-20°	245.4	9.4
20°-30°	369.8	14.2
30°-40°	443.2	17.0
40°-50°	458.2	17.6
50°-60°	415.5	16.0
60°-70°	322.9	12.4
70°-80°	197.2	7.6
80°-90°	61.7	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°	701.2	27.0
0°-40°	1144.3	44.0
0°-60°	2018.1	77.6
0°-90°	2600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	907	906	902	906	907	86
15°	870	870	867	871	871	246
25°	802	802	800	805	804	370
35°	706	707	707	711	711	442
45°	593	593	594	595	595	457
55°	463	465	465	465	465	414
65°	327	327	327	325	328	323
75°	187	187	186	185	185	198
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°	909.3	909.3	909.3	909.3	909.3
2.5°	910.1	909.3	905.1	909.3	910.1
5°	906.8	905.9	901.8	905.9	906.8
7.5°	901.0	901.0	896.8	901.0	901.0
10°	893.5	892.6	888.5	892.6	893.5
12.5°	882.7	882.7	878.5	882.7	883.5
15°	870.2	870.2	866.9	871.0	871.0
17.5°	856.1	856.9	852.8	857.7	857.7
20°	840.3	839.5	837.0	841.1	841.9
22.5°	821.2	822.0	819.5	824.5	825.3
25°	802.1	802.1	800.4	805.4	804.5
27.5°	781.3	781.3	778.8	782.9	783.8
30°	756.3	757.2	756.3	760.5	759.7
32.5°	733.1	733.9	733.9	735.6	736.4
35°	706.5	707.3	707.3	710.6	710.6
37.5°	679.9	679.9	680.7	683.2	683.2
40°	651.6	652.4	652.4	654.9	655.8
42.5°	624.2	622.5	623.4	625.9	625.9
45°	592.6	593.4	594.3	595.1	595.1
47.5°	561.0	562.7	563.5	564.3	563.5
50°	529.4	531.1	531.1	530.3	530.3
52.5°	495.4	499.5	498.7	498.7	500.3
55°	462.9	464.6	465.4	465.4	464.6
57.5°	430.5	432.2	430.5	431.4	429.7
60°	395.6	396.5	395.6	395.6	395.6
62.5°	361.5	362.4	360.7	360.7	360.7
65°	326.6	326.6	326.6	325.0	328.3
67.5°	290.1	291.7	291.7	292.6	289.2
70°	256.0	256.8	256.0	255.2	253.5
72.5°	221.9	222.7	223.6	220.3	219.4
75°	187.0	187.0	186.2	185.3	185.3
77.5°	152.9	152.9	152.9	151.3	151.3
80°	119.7	120.5	118.9	118.9	118.0
82.5°	87.3	87.3	87.3	86.4	84.8
85°	56.5	54.9	55.7	54.0	54.0
87.5°	25.8	25.8	25.8	24.1	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)