

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: P291548

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291548
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-LD5-28-FGW080-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2203.0 lumens
Efficiency: N/A
Efficacy: 99.1 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

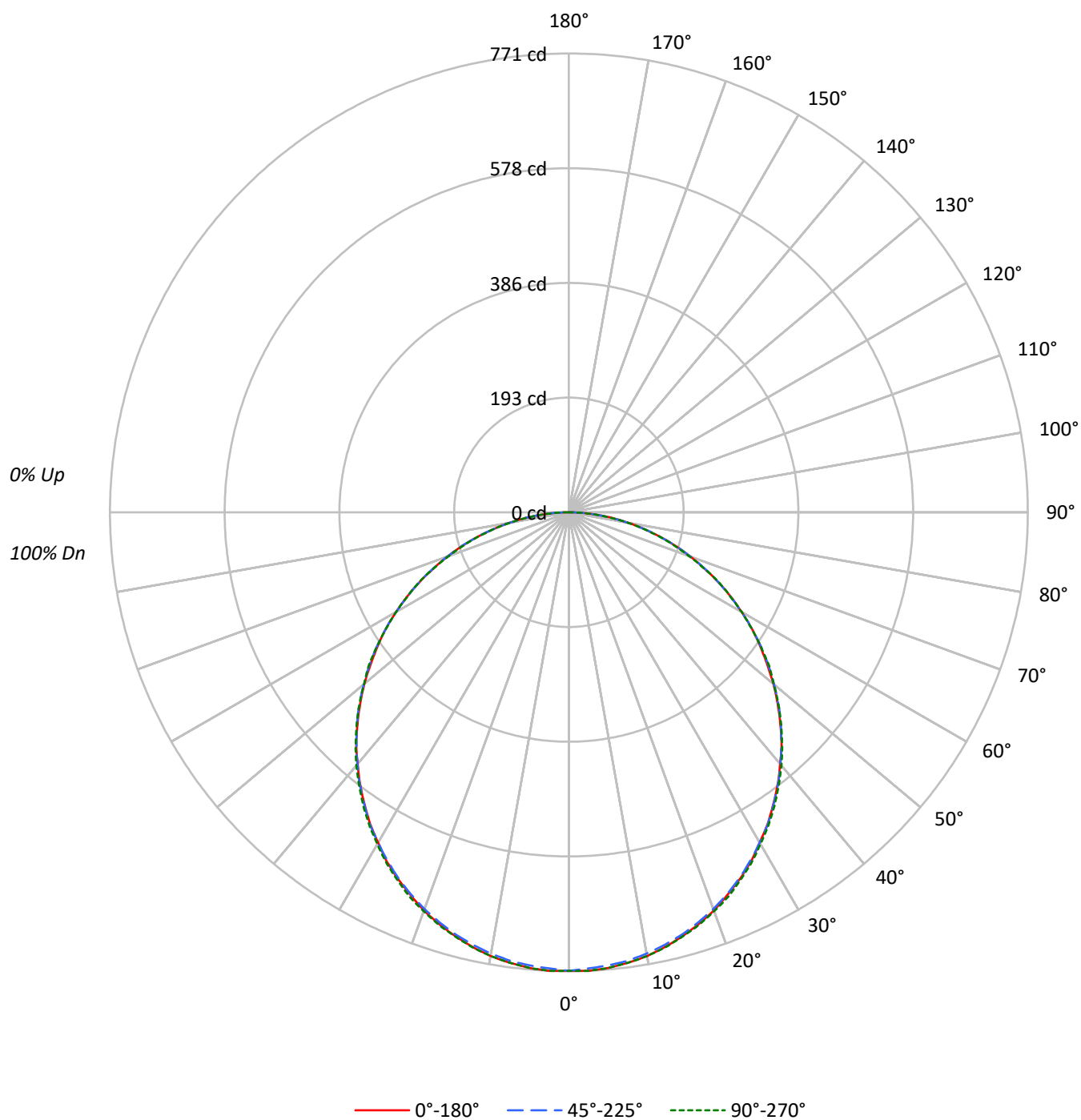
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2073	2073	2073
5°	2075	2064	2075
10°	2069	2057	2069
15°	2054	2046	2056
20°	2039	2031	2043
25°	2018	2014	2024
30°	1991	1991	2000
35°	1966	1969	1978
40°	1939	1942	1952
45°	1911	1916	1919
50°	1878	1884	1881
55°	1841	1850	1847
60°	1804	1804	1804
65°	1762	1762	1771
70°	1707	1707	1690
75°	1648	1640	1632
80°	1571	1561	1550
85°	1479	1457	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.3
10°-20°	207.9	9.4
20°-30°	313.3	14.2
30°-40°	375.5	17.0
40°-50°	388.3	17.6
50°-60°	352.1	16.0
60°-70°	273.6	12.4
70°-80°	167.1	7.6
80°-90°	52.3	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°	594.1	27.0
0°-40°	969.6	44.0
0°-60°	1710.0	77.6
0°-90°	2203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	768	768	764	768	768	73
15°	737	737	734	738	738	208
25°	680	680	678	682	682	313
35°	599	599	599	602	602	375
45°	502	503	504	504	504	387
55°	392	394	394	394	394	351
65°	277	277	277	275	278	273
75°	158	158	158	157	157	168
85°	48	46	47	46	46	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.4	770.4	770.4	770.4	770.4
2.5°	771.1	770.4	766.9	770.4	771.1
5°	768.3	767.6	764.1	767.6	768.3
7.5°	763.4	763.4	759.9	763.4	763.4
10°	757.1	756.3	752.8	756.3	757.1
12.5°	747.9	747.9	744.4	747.9	748.6
15°	737.3	737.3	734.5	738.0	738.0
17.5°	725.4	726.1	722.5	726.8	726.8
20°	712.0	711.3	709.2	712.7	713.4
22.5°	695.8	696.5	694.4	698.6	699.3
25°	679.6	679.6	678.2	682.4	681.7
27.5°	662.0	662.0	659.9	663.4	664.1
30°	640.9	641.6	640.9	644.4	643.7
32.5°	621.1	621.8	621.8	623.2	624.0
35°	598.6	599.3	599.3	602.1	602.1
37.5°	576.1	576.1	576.8	578.9	578.9
40°	552.1	552.8	552.8	554.9	555.6
42.5°	528.9	527.5	528.2	530.3	530.3
45°	502.1	502.8	503.5	504.2	504.2
47.5°	475.4	476.8	477.5	478.2	477.5
50°	448.6	450.0	450.0	449.3	449.3
52.5°	419.7	423.2	422.5	422.5	423.9
55°	392.3	393.7	394.4	394.4	393.7
57.5°	364.8	366.2	364.8	365.5	364.1
60°	335.2	335.9	335.2	335.2	335.2
62.5°	306.3	307.0	305.6	305.6	305.6
65°	276.8	276.8	276.8	275.4	278.2
67.5°	245.8	247.2	247.2	247.9	245.1
70°	216.9	217.6	216.9	216.2	214.8
72.5°	188.0	188.7	189.4	186.6	185.9
75°	158.5	158.5	157.7	157.0	157.0
77.5°	129.6	129.6	129.6	128.2	128.2
80°	101.4	102.1	100.7	100.7	100.0
82.5°	73.9	73.9	73.9	73.2	71.8
85°	47.9	46.5	47.2	45.8	45.8
87.5°	21.8	21.8	21.8	20.4	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)