

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: P291700

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291700
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-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2209.0 lumens
Efficiency: N/A
Efficacy: 85.1 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

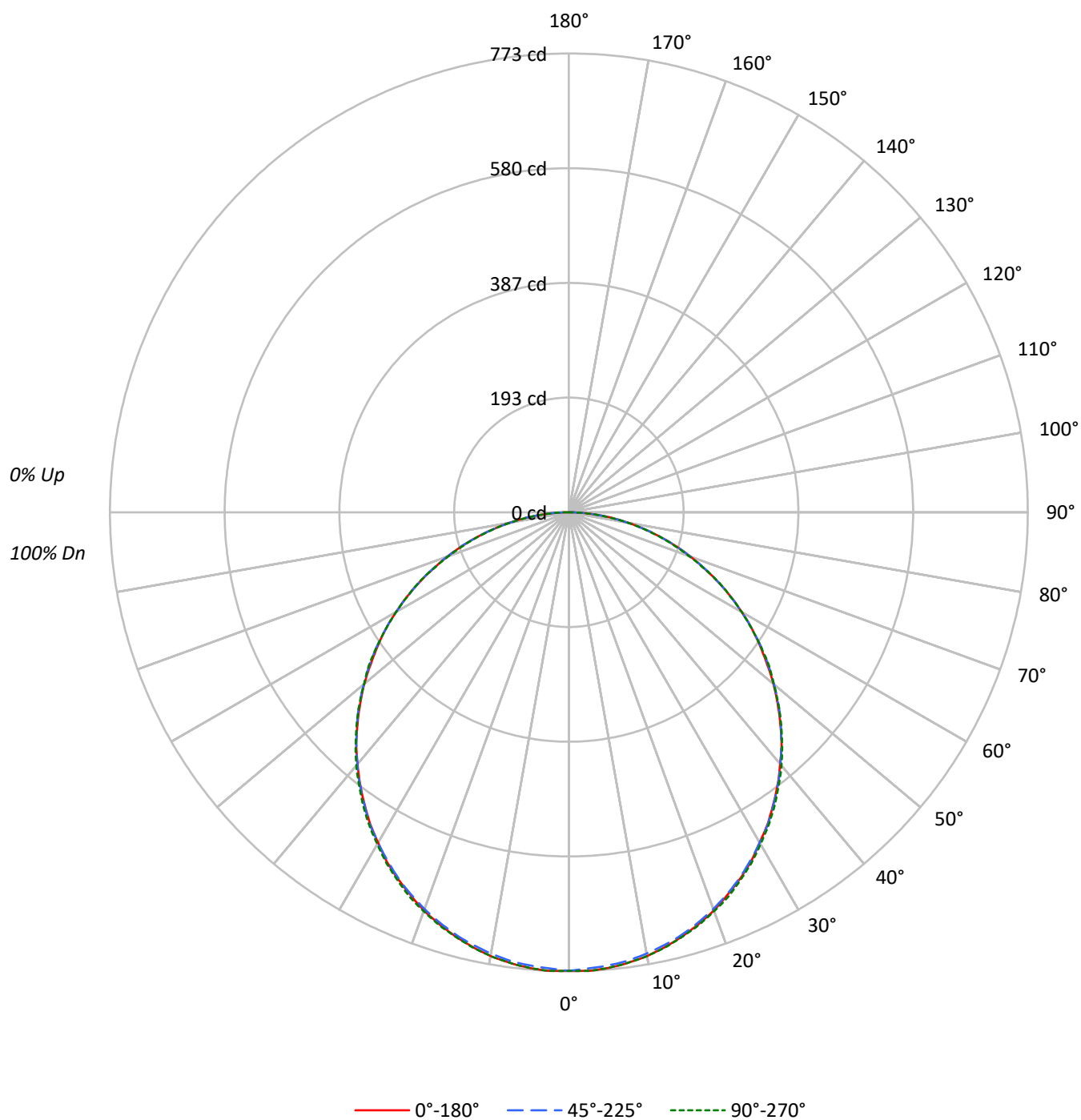
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2079	2079	2079
5°	2081	2070	2081
10°	2074	2063	2074
15°	2060	2052	2062
20°	2044	2036	2048
25°	2023	2019	2030
30°	1997	1997	2005
35°	1972	1974	1984
40°	1945	1947	1957
45°	1916	1921	1924
50°	1883	1889	1886
55°	1845	1855	1852
60°	1809	1809	1809
65°	1767	1767	1776
70°	1711	1711	1695
75°	1652	1645	1638
80°	1576	1565	1554
85°	1482	1460	1417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.3
10°-20°	208.5	9.4
20°-30°	314.2	14.2
30°-40°	376.5	17.0
40°-50°	389.3	17.6
50°-60°	353.0	16.0
60°-70°	274.4	12.4
70°-80°	167.6	7.6
80°-90°	52.4	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°	595.7	27.0
0°-40°	972.2	44.0
0°-60°	1714.6	77.6
0°-90°	2209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	770	770	766	770	770	73
15°	739	739	736	740	740	209
25°	681	681	680	684	684	314
35°	600	601	601	604	604	376
45°	504	504	505	506	506	388
55°	393	395	395	395	395	352
65°	278	278	278	276	279	274
75°	159	159	158	158	158	168
85°	48	47	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°	772.5	772.5	772.5	772.5	772.5
2.5°	773.2	772.5	769.0	772.5	773.2
5°	770.4	769.7	766.2	769.7	770.4
7.5°	765.5	765.5	761.9	765.5	765.5
10°	759.1	758.4	754.9	758.4	759.1
12.5°	749.9	749.9	746.4	749.9	750.6
15°	739.3	739.3	736.5	740.0	740.0
17.5°	727.3	728.0	724.5	728.7	728.7
20°	713.9	713.2	711.1	714.6	715.3
22.5°	697.7	698.4	696.3	700.5	701.2
25°	681.4	681.4	680.0	684.3	683.6
27.5°	663.8	663.8	661.7	665.2	665.9
30°	642.6	643.3	642.6	646.1	645.4
32.5°	622.8	623.5	623.5	624.9	625.7
35°	600.2	600.9	600.9	603.8	603.8
37.5°	577.6	577.6	578.3	580.5	580.5
40°	553.6	554.3	554.3	556.4	557.2
42.5°	530.3	528.9	529.6	531.7	531.7
45°	503.5	504.2	504.9	505.6	505.6
47.5°	476.7	478.1	478.8	479.5	478.8
50°	449.8	451.2	451.2	450.5	450.5
52.5°	420.9	424.4	423.7	423.7	425.1
55°	393.3	394.7	395.4	395.4	394.7
57.5°	365.8	367.2	365.8	366.5	365.1
60°	336.1	336.8	336.1	336.1	336.1
62.5°	307.2	307.9	306.5	306.5	306.5
65°	277.5	277.5	277.5	276.1	278.9
67.5°	246.4	247.9	247.9	248.6	245.7
70°	217.5	218.2	217.5	216.8	215.4
72.5°	188.5	189.2	190.0	187.1	186.4
75°	158.9	158.9	158.2	157.5	157.5
77.5°	129.9	129.9	129.9	128.5	128.5
80°	101.7	102.4	101.0	101.0	100.3
82.5°	74.1	74.1	74.1	73.4	72.0
85°	48.0	46.6	47.3	45.9	45.9
87.5°	21.9	21.9	21.9	20.5	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)