

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: P291593

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291593
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-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2199.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

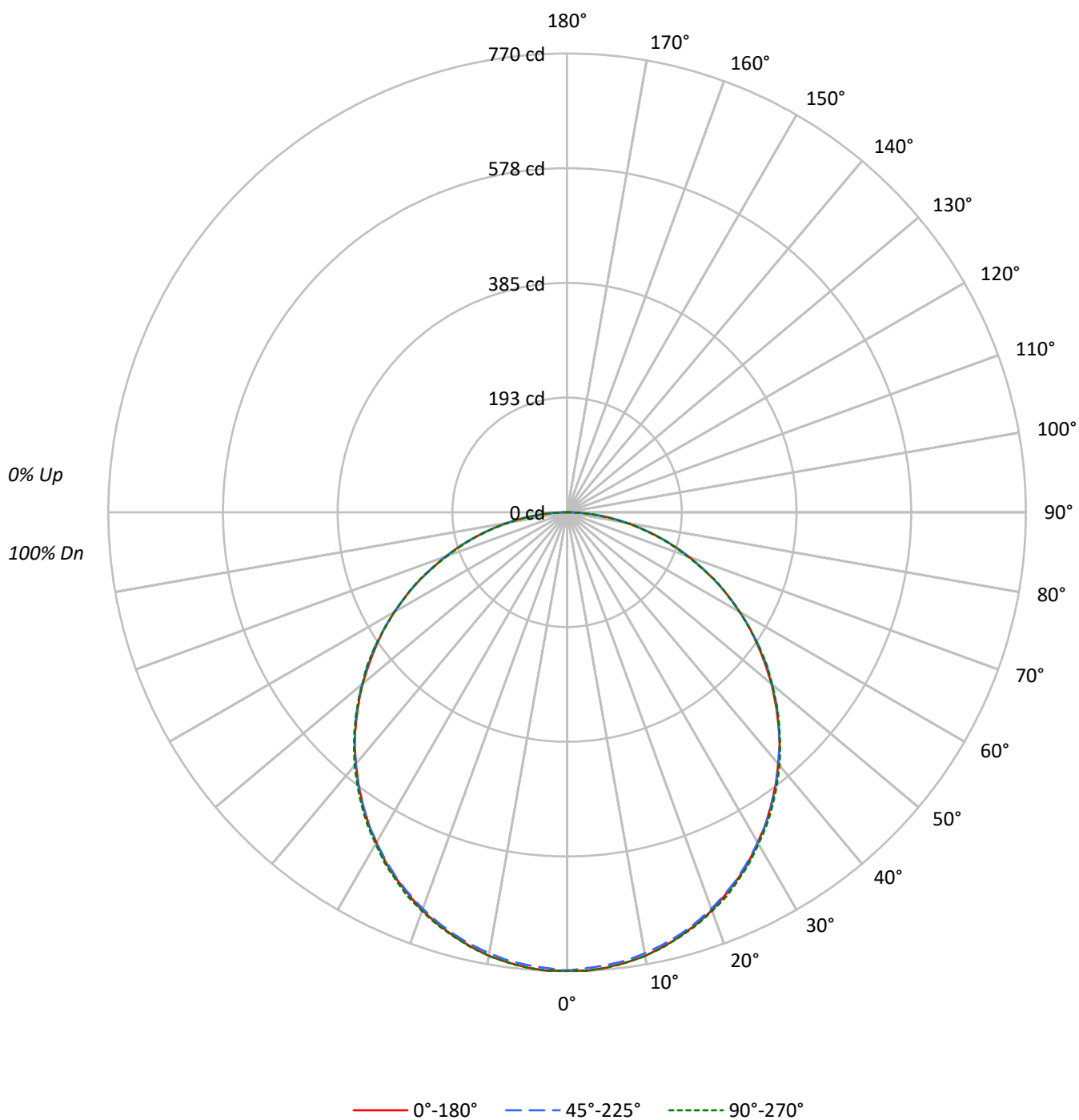
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2069	2069	2069
5°	2072	2060	2072
10°	2065	2053	2065
15°	2050	2043	2052
20°	2035	2027	2039
25°	2014	2010	2021
30°	1988	1988	1996
35°	1963	1965	1974
40°	1936	1938	1948
45°	1907	1913	1915
50°	1875	1881	1878
55°	1837	1847	1844
60°	1801	1801	1801
65°	1759	1759	1768
70°	1703	1703	1687
75°	1645	1638	1630
80°	1568	1557	1547
85°	1476	1454	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.3
10°-20°	207.5	9.4
20°-30°	312.8	14.2
30°-40°	374.8	17.0
40°-50°	387.6	17.6
50°-60°	351.4	16.0
60°-70°	273.1	12.4
70°-80°	166.8	7.6
80°-90°	52.2	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°	593.0	27.0
0°-40°	967.8	44.0
0°-60°	1706.8	77.6
0°-90°	2199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	767	766	763	766	767	73
15°	736	736	733	737	737	208
25°	678	678	677	681	680	313
35°	598	598	598	601	601	374
45°	501	502	503	503	503	387
55°	392	393	394	394	393	350
65°	276	276	276	275	278	273
75°	158	158	158	157	157	167
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°	769.0	769.0	769.0	769.0	769.0
2.5°	769.7	769.0	765.5	769.0	769.7
5°	766.9	766.2	762.7	766.2	766.9
7.5°	762.0	762.0	758.5	762.0	762.0
10°	755.7	755.0	751.5	755.0	755.7
12.5°	746.5	746.5	743.0	746.5	747.2
15°	736.0	736.0	733.2	736.7	736.7
17.5°	724.0	724.7	721.2	725.5	725.5
20°	710.7	710.0	707.9	711.4	712.1
22.5°	694.5	695.2	693.1	697.3	698.0
25°	678.4	678.4	676.9	681.2	680.5
27.5°	660.8	660.8	658.7	662.2	662.9
30°	639.7	640.4	639.7	643.2	642.5
32.5°	620.0	620.7	620.7	622.1	622.8
35°	597.5	598.2	598.2	601.0	601.0
37.5°	575.0	575.0	575.7	577.8	577.8
40°	551.1	551.8	551.8	553.9	554.6
42.5°	527.9	526.5	527.2	529.3	529.3
45°	501.2	501.9	502.6	503.3	503.3
47.5°	474.5	475.9	476.6	477.3	476.6
50°	447.8	449.2	449.2	448.5	448.5
52.5°	419.0	422.5	421.8	421.8	423.2
55°	391.5	393.0	393.7	393.7	393.0
57.5°	364.1	365.5	364.1	364.8	363.4
60°	334.6	335.3	334.6	334.6	334.6
62.5°	305.8	306.5	305.1	305.1	305.1
65°	276.3	276.3	276.3	274.9	277.7
67.5°	245.3	246.7	246.7	247.4	244.6
70°	216.5	217.2	216.5	215.8	214.4
72.5°	187.7	188.4	189.1	186.3	185.6
75°	158.2	158.2	157.5	156.8	156.8
77.5°	129.3	129.3	129.3	127.9	127.9
80°	101.2	101.9	100.5	100.5	99.8
82.5°	73.8	73.8	73.8	73.1	71.7
85°	47.8	46.4	47.1	45.7	45.7
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)