

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: P291592

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291592
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-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: 2152.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

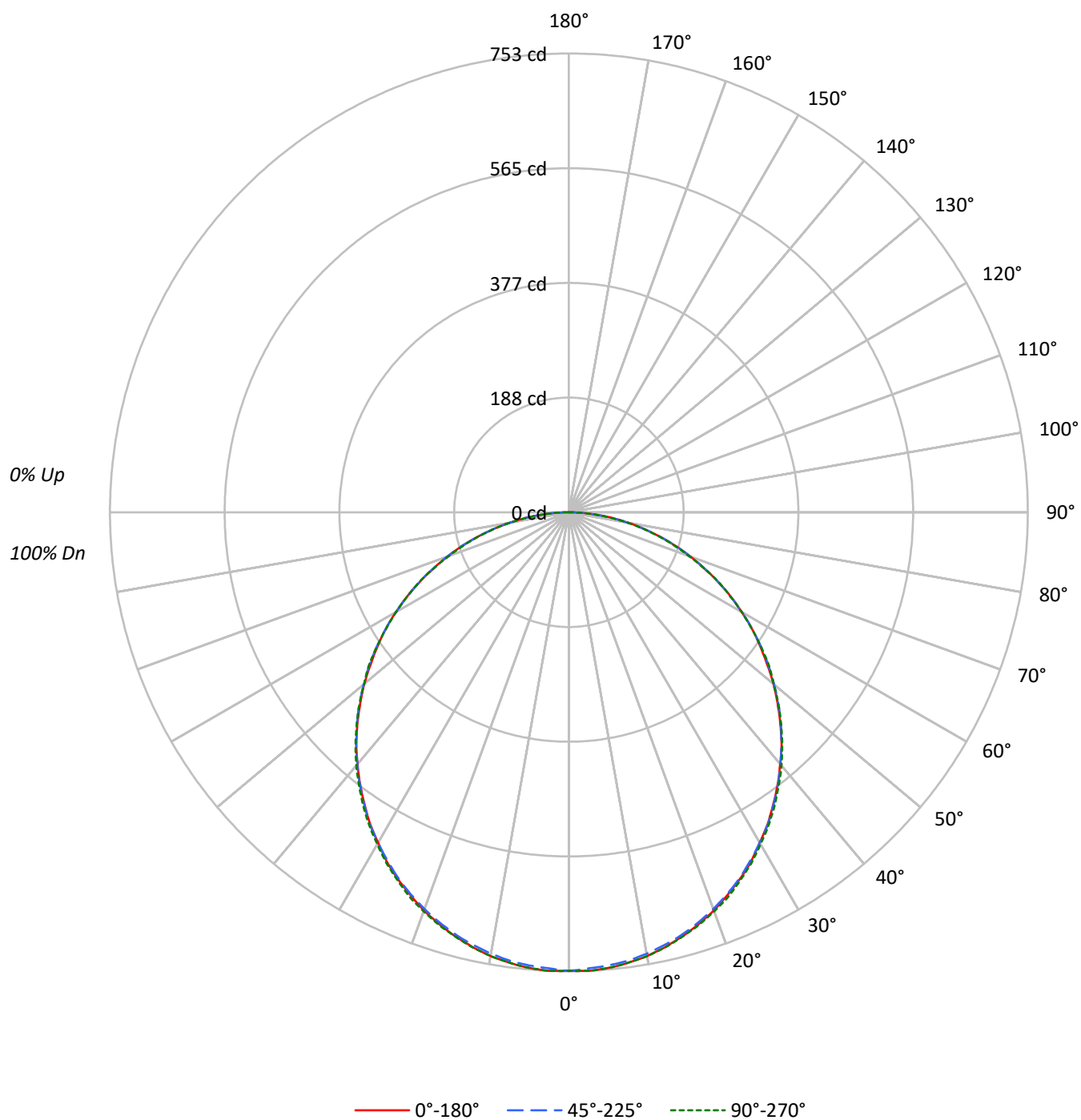
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2025	2025	2025
5°	2027	2016	2027
10°	2021	2009	2021
15°	2007	1999	2009
20°	1992	1984	1996
25°	1971	1967	1977
30°	1945	1945	1954
35°	1921	1923	1932
40°	1894	1897	1907
45°	1867	1872	1875
50°	1834	1840	1837
55°	1798	1807	1804
60°	1763	1763	1763
65°	1722	1722	1730
70°	1667	1667	1651
75°	1609	1602	1595
80°	1536	1525	1514
85°	1445	1423	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.3
10°-20°	203.1	9.4
20°-30°	306.1	14.2
30°-40°	366.8	17.0
40°-50°	379.3	17.6
50°-60°	343.9	16.0
60°-70°	267.3	12.4
70°-80°	163.3	7.6
80°-90°	51.1	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°	580.4	27.0
0°-40°	947.2	44.0
0°-60°	1670.4	77.6
0°-90°	2152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	750	750	746	750	750	71
15°	720	720	718	721	721	203
25°	664	664	662	667	666	306
35°	585	585	585	588	588	366
45°	490	491	492	493	493	378
55°	383	385	385	385	385	343
65°	270	270	270	269	272	267
75°	155	155	154	153	153	164
85°	47	45	46	45	45	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.6	752.6	752.6	752.6	752.6
2.5°	753.3	752.6	749.2	752.6	753.3
5°	750.5	749.8	746.4	749.8	750.5
7.5°	745.7	745.7	742.3	745.7	745.7
10°	739.5	738.8	735.4	738.8	739.5
12.5°	730.6	730.6	727.1	730.6	731.3
15°	720.3	720.3	717.5	721.0	721.0
17.5°	708.6	709.3	705.8	709.9	709.9
20°	695.5	694.8	692.7	696.2	696.9
22.5°	679.7	680.4	678.3	682.4	683.1
25°	663.9	663.9	662.5	666.6	665.9
27.5°	646.7	646.7	644.6	648.0	648.7
30°	626.0	626.7	626.0	629.5	628.8
32.5°	606.8	607.4	607.4	608.8	609.5
35°	584.7	585.4	585.4	588.2	588.2
37.5°	562.7	562.7	563.4	565.5	565.5
40°	539.3	540.0	540.0	542.1	542.8
42.5°	516.6	515.3	515.9	518.0	518.0
45°	490.5	491.2	491.9	492.6	492.6
47.5°	464.4	465.7	466.4	467.1	466.4
50°	438.2	439.6	439.6	438.9	438.9
52.5°	410.0	413.4	412.8	412.8	414.1
55°	383.2	384.6	385.2	385.2	384.6
57.5°	356.3	357.7	356.3	357.0	355.7
60°	327.5	328.1	327.5	327.5	327.5
62.5°	299.3	299.9	298.6	298.6	298.6
65°	270.4	270.4	270.4	269.0	271.7
67.5°	240.1	241.5	241.5	242.2	239.4
70°	211.9	212.6	211.9	211.2	209.8
72.5°	183.7	184.4	185.1	182.3	181.6
75°	154.8	154.8	154.1	153.4	153.4
77.5°	126.6	126.6	126.6	125.2	125.2
80°	99.1	99.8	98.4	98.4	97.7
82.5°	72.2	72.2	72.2	71.5	70.2
85°	46.8	45.4	46.1	44.7	44.7
87.5°	21.3	21.3	21.3	20.0	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)