

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: P291543

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291543
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-LD5-24-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: 1845.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

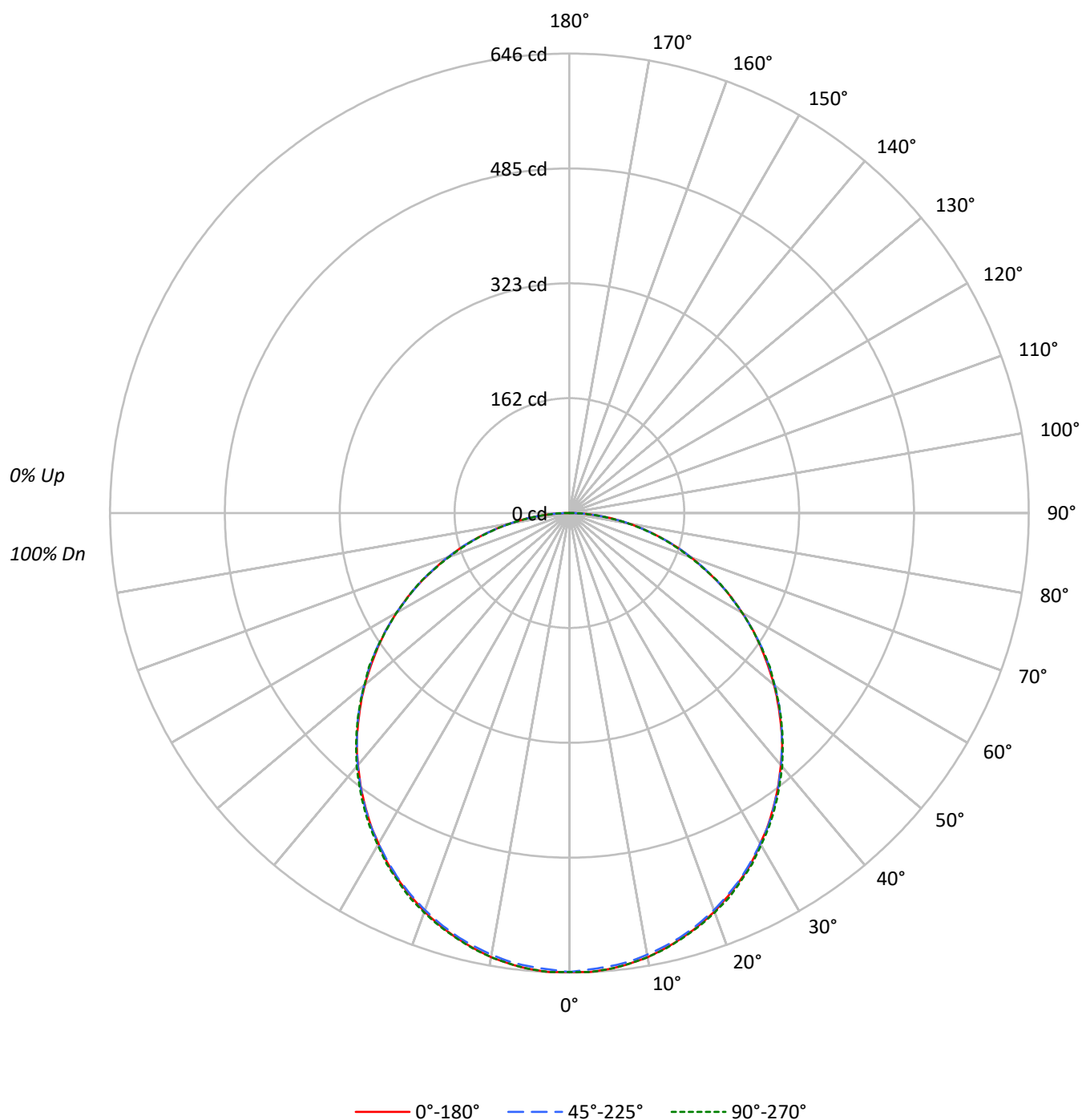
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1736	1736	1736
5°	1738	1729	1738
10°	1732	1723	1732
15°	1720	1714	1722
20°	1708	1701	1711
25°	1690	1686	1695
30°	1668	1668	1675
35°	1647	1649	1657
40°	1624	1626	1635
45°	1600	1605	1607
50°	1573	1578	1575
55°	1541	1550	1547
60°	1511	1511	1511
65°	1476	1476	1484
70°	1430	1430	1415
75°	1380	1373	1367
80°	1316	1306	1299
85°	1238	1220	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.3
10°-20°	174.1	9.4
20°-30°	262.4	14.2
30°-40°	314.5	17.0
40°-50°	325.2	17.6
50°-60°	294.9	16.0
60°-70°	229.1	12.4
70°-80°	140.0	7.6
80°-90°	43.8	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°	497.6	27.0
0°-40°	812.0	44.0
0°-60°	1432.1	77.6
0°-90°	1845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	644	643	640	643	644	61
15°	618	618	615	618	618	174
25°	569	569	568	572	571	262
35°	501	502	502	504	504	314
45°	420	421	422	422	422	324
55°	328	330	330	330	330	294
65°	232	232	232	231	233	229
75°	133	133	132	132	132	140
85°	40	39	40	38	38	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	645.2	645.2	645.2	645.2	645.2
2.5°	645.8	645.2	642.3	645.2	645.8
5°	643.5	642.9	639.9	642.9	643.5
7.5°	639.3	639.3	636.4	639.3	639.3
10°	634.0	633.4	630.5	633.4	634.0
12.5°	626.4	626.4	623.4	626.4	626.9
15°	617.5	617.5	615.2	618.1	618.1
17.5°	607.5	608.1	605.1	608.7	608.7
20°	596.3	595.7	593.9	596.9	597.5
22.5°	582.7	583.3	581.5	585.1	585.7
25°	569.2	569.2	568.0	571.5	570.9
27.5°	554.4	554.4	552.6	555.6	556.2
30°	536.7	537.3	536.7	539.7	539.1
32.5°	520.2	520.8	520.8	522.0	522.6
35°	501.3	501.9	501.9	504.3	504.3
37.5°	482.5	482.5	483.0	484.8	484.8
40°	462.4	463.0	463.0	464.8	465.3
42.5°	442.9	441.8	442.3	444.1	444.1
45°	420.5	421.1	421.7	422.3	422.3
47.5°	398.1	399.3	399.9	400.5	399.9
50°	375.7	376.9	376.9	376.3	376.3
52.5°	351.5	354.5	353.9	353.9	355.1
55°	328.5	329.7	330.3	330.3	329.7
57.5°	305.5	306.7	305.5	306.1	304.9
60°	280.7	281.3	280.7	280.7	280.7
62.5°	256.6	257.1	256.0	256.0	256.0
65°	231.8	231.8	231.8	230.6	233.0
67.5°	205.8	207.0	207.0	207.6	205.2
70°	181.7	182.2	181.7	181.1	179.9
72.5°	157.5	158.1	158.7	156.3	155.7
75°	132.7	132.7	132.1	131.5	131.5
77.5°	108.5	108.5	108.5	107.3	107.3
80°	84.9	85.5	84.3	84.3	83.8
82.5°	61.9	61.9	61.9	61.3	60.2
85°	40.1	38.9	39.5	38.3	38.3
87.5°	18.3	18.3	18.3	17.1	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)