

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: P291684

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291684
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-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

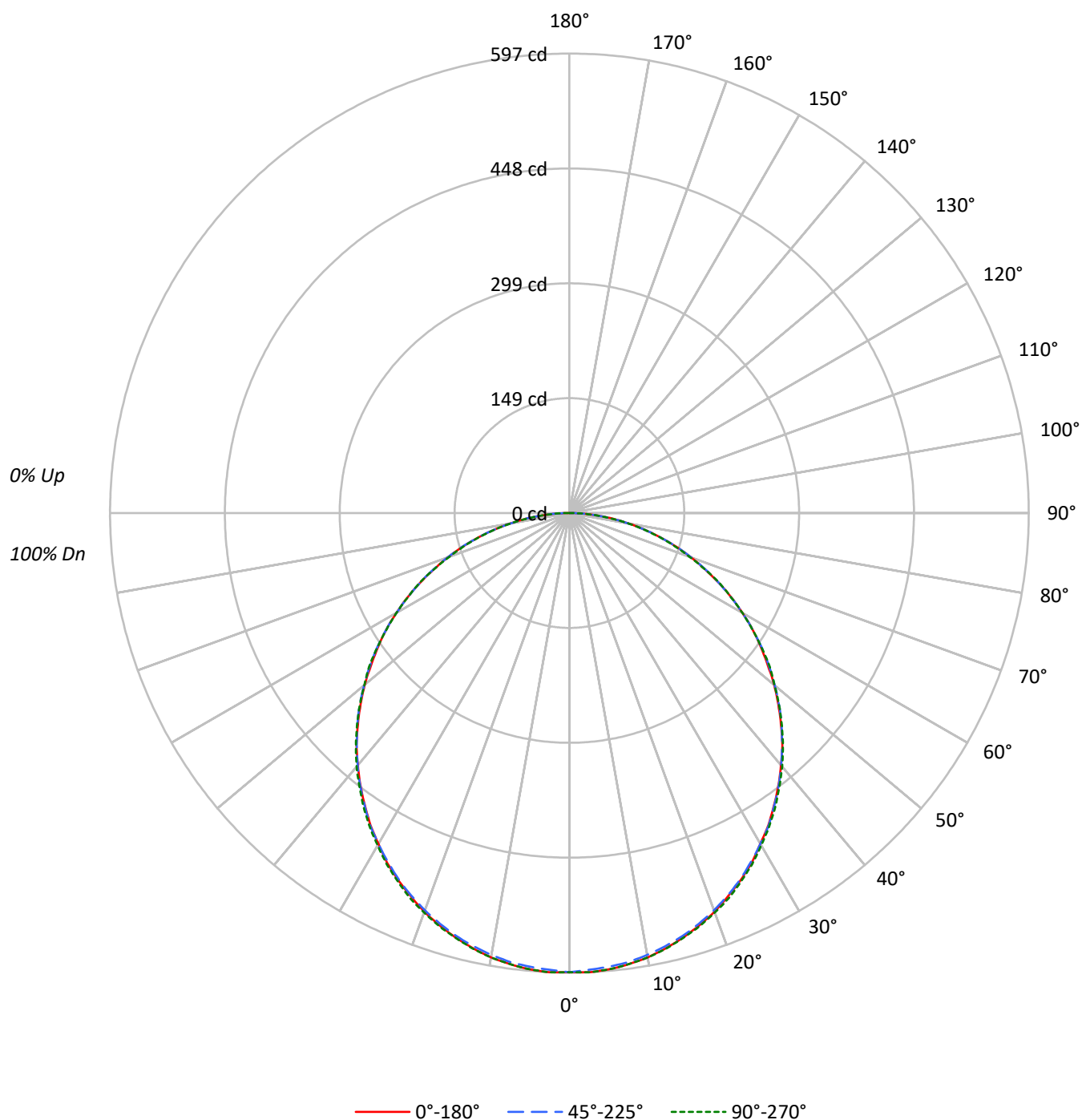
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1605	1605	1605
5°	1607	1598	1607
10°	1602	1593	1602
15°	1591	1585	1592
20°	1579	1573	1582
25°	1563	1559	1567
30°	1542	1542	1549
35°	1523	1525	1532
40°	1502	1504	1512
45°	1480	1484	1486
50°	1454	1459	1456
55°	1425	1433	1430
60°	1397	1397	1397
65°	1365	1365	1372
70°	1322	1322	1308
75°	1276	1271	1264
80°	1216	1209	1199
85°	1145	1127	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	3.3
10°-20°	161.0	9.4
20°-30°	242.6	14.2
30°-40°	290.8	17.0
40°-50°	300.7	17.6
50°-60°	272.6	16.0
60°-70°	211.9	12.4
70°-80°	129.4	7.6
80°-90°	40.5	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°	460.1	27.0
0°-40°	750.9	44.0
0°-60°	1324.2	77.6
0°-90°	1706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	597	597	597	597	597	
5°	595	594	592	594	595	57
15°	571	571	569	572	572	161
25°	526	526	525	528	528	242
35°	464	464	464	466	466	290
45°	389	389	390	390	390	300
55°	304	305	305	305	305	272
65°	214	214	214	213	215	212
75°	123	123	122	122	122	130
85°	37	36	36	35	35	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	596.6	596.6	596.6	596.6	596.6
2.5°	597.2	596.6	593.9	596.6	597.2
5°	595.0	594.4	591.7	594.4	595.0
7.5°	591.2	591.2	588.4	591.2	591.2
10°	586.3	585.7	583.0	585.7	586.3
12.5°	579.2	579.2	576.4	579.2	579.7
15°	571.0	571.0	568.8	571.5	571.5
17.5°	561.7	562.3	559.5	562.8	562.8
20°	551.4	550.8	549.2	551.9	552.4
22.5°	538.8	539.4	537.7	541.0	541.5
25°	526.3	526.3	525.2	528.5	527.9
27.5°	512.6	512.6	511.0	513.7	514.3
30°	496.3	496.8	496.3	499.0	498.5
32.5°	481.0	481.6	481.6	482.6	483.2
35°	463.6	464.1	464.1	466.3	466.3
37.5°	446.1	446.1	446.6	448.3	448.3
40°	427.6	428.1	428.1	429.7	430.3
42.5°	409.6	408.5	409.0	410.7	410.7
45°	388.8	389.4	389.9	390.5	390.5
47.5°	368.1	369.2	369.8	370.3	369.8
50°	347.4	348.5	348.5	347.9	347.9
52.5°	325.0	327.8	327.2	327.2	328.3
55°	303.8	304.9	305.4	305.4	304.9
57.5°	282.5	283.6	282.5	283.0	282.0
60°	259.6	260.1	259.6	259.6	259.6
62.5°	237.2	237.8	236.7	236.7	236.7
65°	214.3	214.3	214.3	213.2	215.4
67.5°	190.3	191.4	191.4	192.0	189.8
70°	168.0	168.5	168.0	167.4	166.3
72.5°	145.6	146.2	146.7	144.5	144.0
75°	122.7	122.7	122.2	121.6	121.6
77.5°	100.3	100.3	100.3	99.3	99.3
80°	78.5	79.1	78.0	78.0	77.4
82.5°	57.3	57.3	57.3	56.7	55.6
85°	37.1	36.0	36.5	35.4	35.4
87.5°	16.9	16.9	16.9	15.8	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)