

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: P291583

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291583
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-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: 1802.0 lumens
Efficiency: N/A
Efficacy: 98.4 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

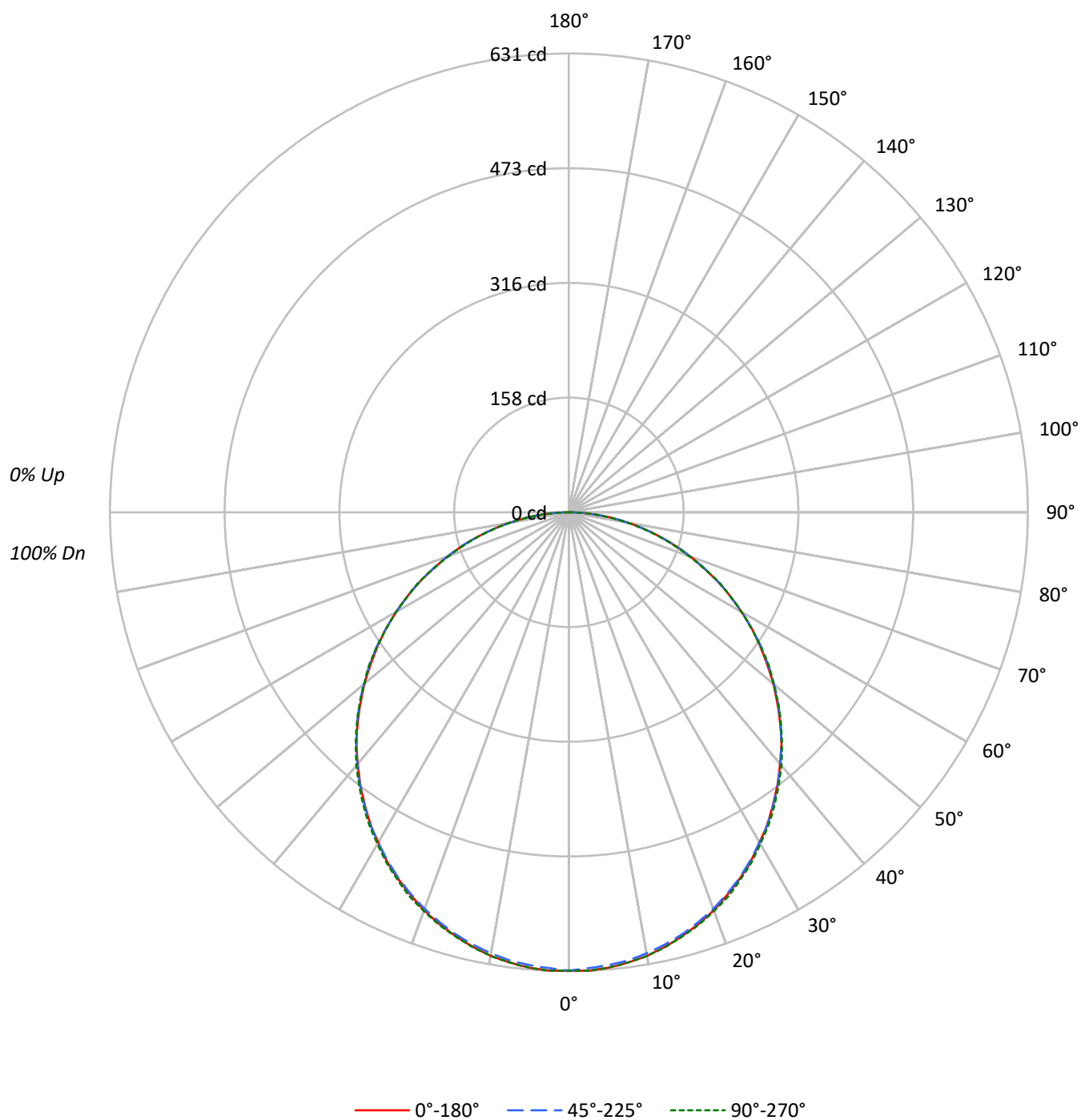
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1696	1696	1696
5°	1698	1688	1698
10°	1692	1683	1692
15°	1680	1674	1682
20°	1668	1661	1671
25°	1651	1647	1656
30°	1629	1629	1636
35°	1608	1610	1618
40°	1586	1588	1597
45°	1563	1568	1569
50°	1536	1541	1539
55°	1506	1514	1511
60°	1476	1476	1476
65°	1442	1442	1449
70°	1396	1396	1382
75°	1347	1341	1336
80°	1286	1277	1268
85°	1210	1192	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.3
10°-20°	170.1	9.4
20°-30°	256.3	14.2
30°-40°	307.1	17.0
40°-50°	317.6	17.6
50°-60°	288.0	16.0
60°-70°	223.8	12.4
70°-80°	136.7	7.6
80°-90°	42.8	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°	486.0	27.0
0°-40°	793.1	44.0
0°-60°	1398.7	77.6
0°-90°	1802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	628	628	625	628	628	60
15°	603	603	601	604	604	170
25°	556	556	555	558	558	256
35°	490	490	490	492	492	306
45°	411	411	412	412	412	317
55°	321	322	323	323	322	287
65°	226	226	226	225	228	224
75°	130	130	129	128	128	137
85°	39	38	39	37	37	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	630.2	630.2	630.2	630.2	630.2
2.5°	630.8	630.2	627.3	630.2	630.8
5°	628.5	627.9	625.0	627.9	628.5
7.5°	624.4	624.4	621.6	624.4	624.4
10°	619.3	618.7	615.8	618.7	619.3
12.5°	611.8	611.8	608.9	611.8	612.3
15°	603.1	603.1	600.8	603.7	603.7
17.5°	593.3	593.9	591.0	594.5	594.5
20°	582.4	581.8	580.1	583.0	583.5
22.5°	569.1	569.7	568.0	571.4	572.0
25°	555.9	555.9	554.7	558.2	557.6
27.5°	541.5	541.5	539.8	542.6	543.2
30°	524.2	524.8	524.2	527.1	526.5
32.5°	508.1	508.6	508.6	509.8	510.4
35°	489.6	490.2	490.2	492.5	492.5
37.5°	471.2	471.2	471.8	473.5	473.5
40°	451.6	452.2	452.2	453.9	454.5
42.5°	432.6	431.5	432.0	433.8	433.8
45°	410.7	411.3	411.9	412.4	412.4
47.5°	388.8	390.0	390.6	391.1	390.6
50°	366.9	368.1	368.1	367.5	367.5
52.5°	343.3	346.2	345.6	345.6	346.8
55°	320.9	322.0	322.6	322.6	322.0
57.5°	298.4	299.5	298.4	299.0	297.8
60°	274.2	274.8	274.2	274.2	274.2
62.5°	250.6	251.2	250.0	250.0	250.0
65°	226.4	226.4	226.4	225.2	227.5
67.5°	201.0	202.2	202.2	202.8	200.5
70°	177.4	178.0	177.4	176.8	175.7
72.5°	153.8	154.4	155.0	152.7	152.1
75°	129.6	129.6	129.0	128.5	128.5
77.5°	106.0	106.0	106.0	104.8	104.8
80°	83.0	83.5	82.4	82.4	81.8
82.5°	60.5	60.5	60.5	59.9	58.8
85°	39.2	38.0	38.6	37.4	37.4
87.5°	17.9	17.9	17.9	16.7	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)