

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: P291682

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291682
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1630.0 lumens
Efficiency: N/A
Efficacy: 88.5 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

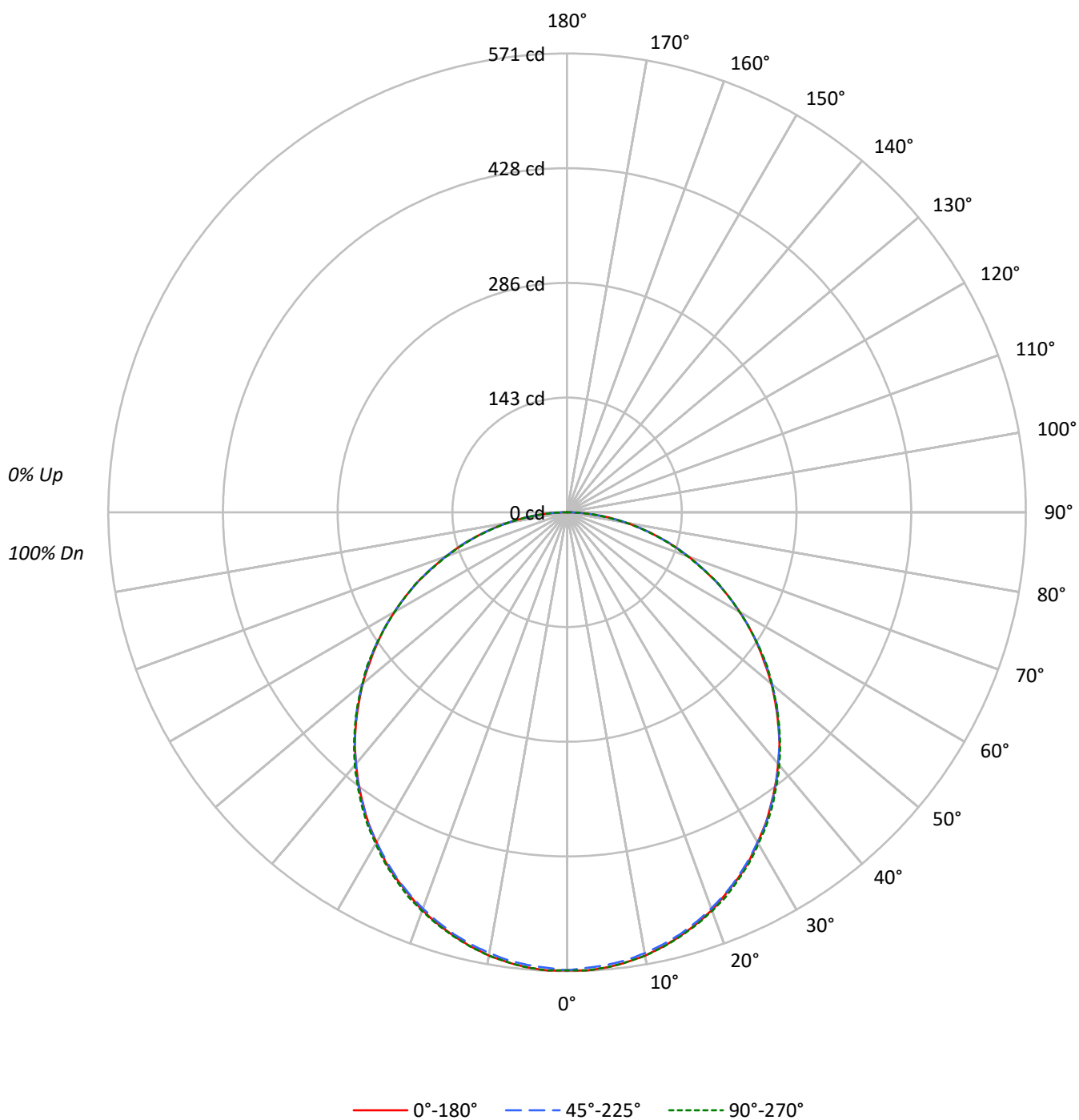
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1534	1534	1534
5°	1536	1527	1536
10°	1530	1522	1530
15°	1520	1514	1521
20°	1509	1503	1511
25°	1493	1490	1498
30°	1473	1473	1480
35°	1455	1457	1464
40°	1435	1437	1444
45°	1414	1418	1420
50°	1389	1394	1392
55°	1361	1369	1367
60°	1335	1335	1335
65°	1304	1304	1310
70°	1263	1263	1250
75°	1219	1213	1208
80°	1162	1155	1147
85°	1093	1078	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.3
10°-20°	153.8	9.4
20°-30°	231.8	14.2
30°-40°	277.8	17.0
40°-50°	287.3	17.6
50°-60°	260.5	16.0
60°-70°	202.4	12.4
70°-80°	123.7	7.6
80°-90°	38.7	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°	439.6	27.0
0°-40°	717.4	44.0
0°-60°	1265.2	77.6
0°-90°	1630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	568	568	565	568	568	54
15°	546	546	544	546	546	154
25°	503	503	502	505	504	232
35°	443	443	443	446	446	277
45°	372	372	373	373	373	287
55°	290	291	292	292	291	260
65°	205	205	205	204	206	202
75°	117	117	117	116	116	124
85°	35	34	35	34	34	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.0	570.0	570.0	570.0	570.0
2.5°	570.6	570.0	567.4	570.0	570.6
5°	568.5	568.0	565.4	568.0	568.5
7.5°	564.8	564.8	562.2	564.8	564.8
10°	560.1	559.6	557.0	559.6	560.1
12.5°	553.4	553.4	550.8	553.4	553.9
15°	545.6	545.6	543.5	546.1	546.1
17.5°	536.7	537.2	534.6	537.7	537.7
20°	526.8	526.3	524.7	527.3	527.8
22.5°	514.8	515.3	513.8	516.9	517.4
25°	502.8	502.8	501.8	504.9	504.4
27.5°	489.8	489.8	488.2	490.8	491.4
30°	474.2	474.7	474.2	476.8	476.3
32.5°	459.6	460.1	460.1	461.1	461.7
35°	442.9	443.4	443.4	445.5	445.5
37.5°	426.2	426.2	426.8	428.3	428.3
40°	408.5	409.0	409.0	410.6	411.1
42.5°	391.3	390.3	390.8	392.4	392.4
45°	371.5	372.0	372.6	373.1	373.1
47.5°	351.7	352.8	353.3	353.8	353.3
50°	331.9	333.0	333.0	332.4	332.4
52.5°	310.6	313.2	312.6	312.6	313.7
55°	290.2	291.3	291.8	291.8	291.3
57.5°	269.9	271.0	269.9	270.4	269.4
60°	248.0	248.5	248.0	248.0	248.0
62.5°	226.7	227.2	226.1	226.1	226.1
65°	204.8	204.8	204.8	203.7	205.8
67.5°	181.9	182.9	182.9	183.4	181.3
70°	160.5	161.0	160.5	160.0	158.9
72.5°	139.1	139.6	140.2	138.1	137.6
75°	117.2	117.2	116.7	116.2	116.2
77.5°	95.9	95.9	95.9	94.8	94.8
80°	75.0	75.6	74.5	74.5	74.0
82.5°	54.7	54.7	54.7	54.2	53.1
85°	35.4	34.4	34.9	33.9	33.9
87.5°	16.2	16.2	16.2	15.1	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)