

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: P291643

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291643
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-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 90.9 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

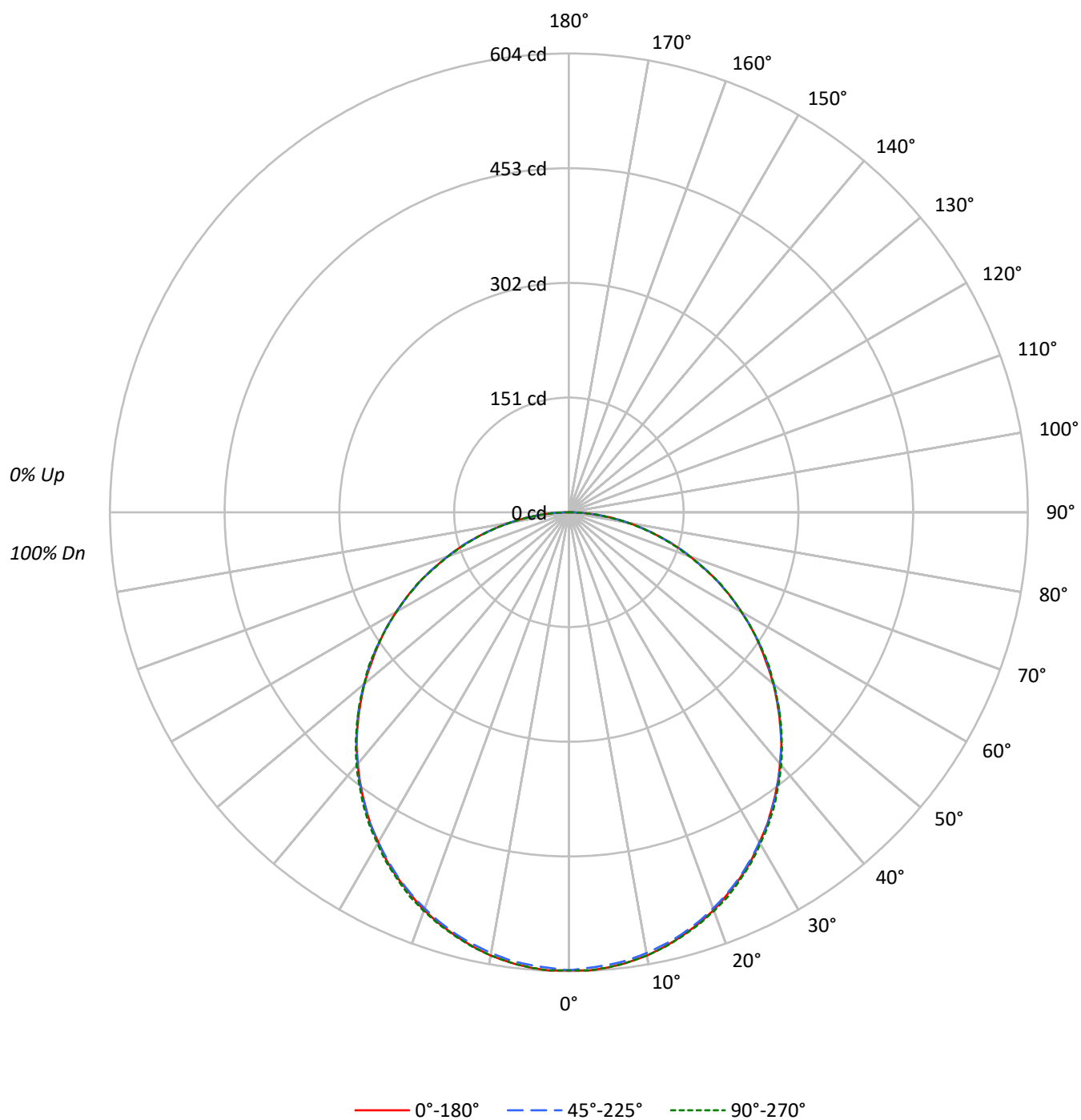
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1622	1622	1622
5°	1624	1615	1624
10°	1619	1610	1619
15°	1607	1601	1609
20°	1596	1589	1599
25°	1579	1576	1584
30°	1558	1558	1565
35°	1539	1541	1548
40°	1518	1520	1527
45°	1495	1499	1502
50°	1470	1474	1472
55°	1440	1448	1445
60°	1412	1412	1412
65°	1379	1379	1386
70°	1335	1335	1323
75°	1289	1283	1278
80°	1230	1221	1213
85°	1158	1139	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	3.3
10°-20°	162.7	9.4
20°-30°	245.2	14.2
30°-40°	293.8	17.0
40°-50°	303.9	17.6
50°-60°	275.5	16.0
60°-70°	214.1	12.4
70°-80°	130.8	7.6
80°-90°	40.9	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°	464.9	27.0
0°-40°	758.8	44.0
0°-60°	1338.2	77.6
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	601	601	598	601	601	57
15°	577	577	575	578	578	163
25°	532	532	531	534	534	245
35°	468	469	469	471	471	293
45°	393	394	394	395	395	303
55°	307	308	309	309	308	275
65°	217	217	217	216	218	214
75°	124	124	123	123	123	131
85°	38	36	37	36	36	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.9	602.9	602.9	602.9	602.9
2.5°	603.5	602.9	600.2	602.9	603.5
5°	601.3	600.7	598.0	600.7	601.3
7.5°	597.4	597.4	594.7	597.4	597.4
10°	592.4	591.9	589.1	591.9	592.4
12.5°	585.3	585.3	582.5	585.3	585.8
15°	577.0	577.0	574.8	577.6	577.6
17.5°	567.6	568.2	565.4	568.7	568.7
20°	557.2	556.6	555.0	557.7	558.3
22.5°	544.5	545.1	543.4	546.7	547.3
25°	531.8	531.8	530.7	534.0	533.5
27.5°	518.0	518.0	516.4	519.1	519.7
30°	501.5	502.1	501.5	504.3	503.7
32.5°	486.1	486.6	486.6	487.7	488.3
35°	468.4	469.0	469.0	471.2	471.2
37.5°	450.8	450.8	451.4	453.0	453.0
40°	432.1	432.6	432.6	434.3	434.8
42.5°	413.9	412.8	413.3	415.0	415.0
45°	392.9	393.5	394.0	394.6	394.6
47.5°	372.0	373.1	373.7	374.2	373.7
50°	351.1	352.2	352.2	351.6	351.6
52.5°	328.5	331.2	330.7	330.7	331.8
55°	307.0	308.1	308.6	308.6	308.1
57.5°	285.5	286.6	285.5	286.0	284.9
60°	262.3	262.9	262.3	262.3	262.3
62.5°	239.7	240.3	239.2	239.2	239.2
65°	216.6	216.6	216.6	215.5	217.7
67.5°	192.3	193.4	193.4	194.0	191.8
70°	169.7	170.3	169.7	169.2	168.1
72.5°	147.1	147.7	148.2	146.0	145.5
75°	124.0	124.0	123.4	122.9	122.9
77.5°	101.4	101.4	101.4	100.3	100.3
80°	79.4	79.9	78.8	78.8	78.3
82.5°	57.9	57.9	57.9	57.3	56.2
85°	37.5	36.4	36.9	35.8	35.8
87.5°	17.1	17.1	17.1	16.0	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)