

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: P291576

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291576
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-LD5-20-FGW080-UNV-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1601.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

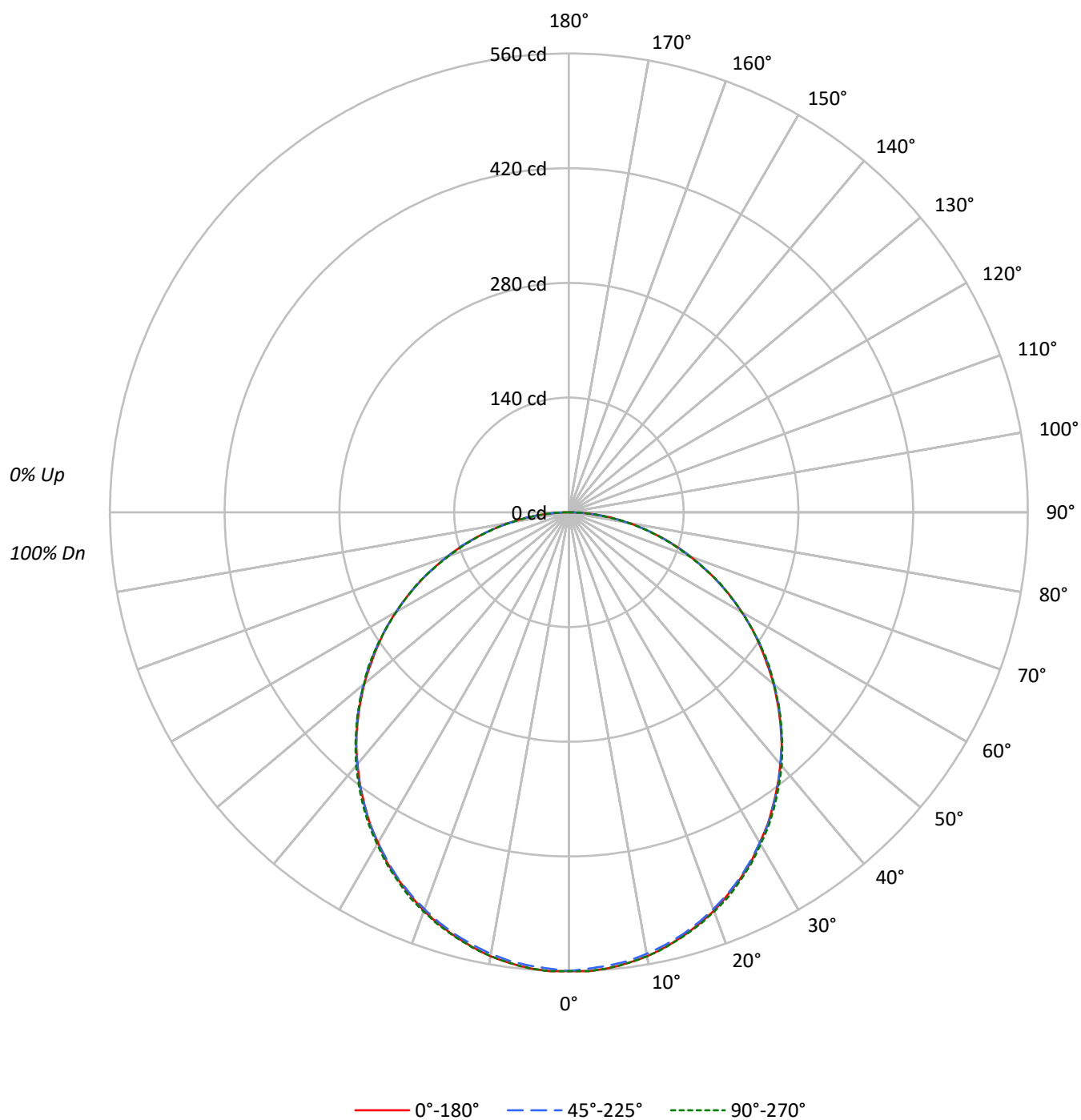
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1507	1507	1507
5°	1508	1500	1508
10°	1503	1495	1503
15°	1493	1487	1494
20°	1482	1476	1485
25°	1466	1464	1471
30°	1447	1447	1454
35°	1429	1431	1438
40°	1409	1411	1418
45°	1389	1392	1394
50°	1365	1369	1367
55°	1338	1345	1342
60°	1311	1311	1311
65°	1280	1280	1287
70°	1240	1240	1228
75°	1198	1192	1186
80°	1142	1134	1127
85°	1074	1059	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.3
10°-20°	151.1	9.4
20°-30°	227.7	14.2
30°-40°	272.9	17.0
40°-50°	282.2	17.6
50°-60°	255.9	16.0
60°-70°	198.8	12.4
70°-80°	121.4	7.6
80°-90°	38.0	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°	431.8	27.0
0°-40°	704.6	44.0
0°-60°	1242.7	77.6
0°-90°	1601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	558	558	555	558	558	53
15°	536	536	534	536	536	151
25°	494	494	493	496	495	228
35°	435	436	436	438	438	272
45°	365	365	366	366	366	282
55°	285	286	287	287	286	255
65°	201	201	201	200	202	199
75°	115	115	115	114	114	122
85°	35	34	34	33	33	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.9	559.9	559.9	559.9	559.9
2.5°	560.4	559.9	557.3	559.9	560.4
5°	558.4	557.9	555.3	557.9	558.4
7.5°	554.8	554.8	552.2	554.8	554.8
10°	550.2	549.7	547.1	549.7	550.2
12.5°	543.5	543.5	541.0	543.5	544.0
15°	535.8	535.8	533.8	536.4	536.4
17.5°	527.1	527.7	525.1	528.2	528.2
20°	517.4	516.9	515.4	517.9	518.4
22.5°	505.7	506.2	504.6	507.7	508.2
25°	493.9	493.9	492.9	495.9	495.4
27.5°	481.1	481.1	479.6	482.1	482.6
30°	465.7	466.2	465.7	468.3	467.8
32.5°	451.4	451.9	451.9	452.9	453.4
35°	435.0	435.5	435.5	437.6	437.6
37.5°	418.6	418.6	419.2	420.7	420.7
40°	401.2	401.8	401.8	403.3	403.8
42.5°	384.4	383.3	383.8	385.4	385.4
45°	364.9	365.4	365.9	366.4	366.4
47.5°	345.5	346.5	347.0	347.5	347.0
50°	326.0	327.0	327.0	326.5	326.5
52.5°	305.0	307.6	307.1	307.1	308.1
55°	285.1	286.1	286.6	286.6	286.1
57.5°	265.1	266.1	265.1	265.6	264.6
60°	243.6	244.1	243.6	243.6	243.6
62.5°	222.6	223.1	222.1	222.1	222.1
65°	201.1	201.1	201.1	200.1	202.2
67.5°	178.6	179.6	179.6	180.2	178.1
70°	157.6	158.1	157.6	157.1	156.1
72.5°	136.6	137.2	137.7	135.6	135.1
75°	115.2	115.2	114.6	114.1	114.1
77.5°	94.2	94.2	94.2	93.1	93.1
80°	73.7	74.2	73.2	73.2	72.7
82.5°	53.7	53.7	53.7	53.2	52.2
85°	34.8	33.8	34.3	33.3	33.3
87.5°	15.9	15.9	15.9	14.8	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)