

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: P291579

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291579
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1643.0 lumens
Efficiency: N/A
Efficacy: 102.7 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

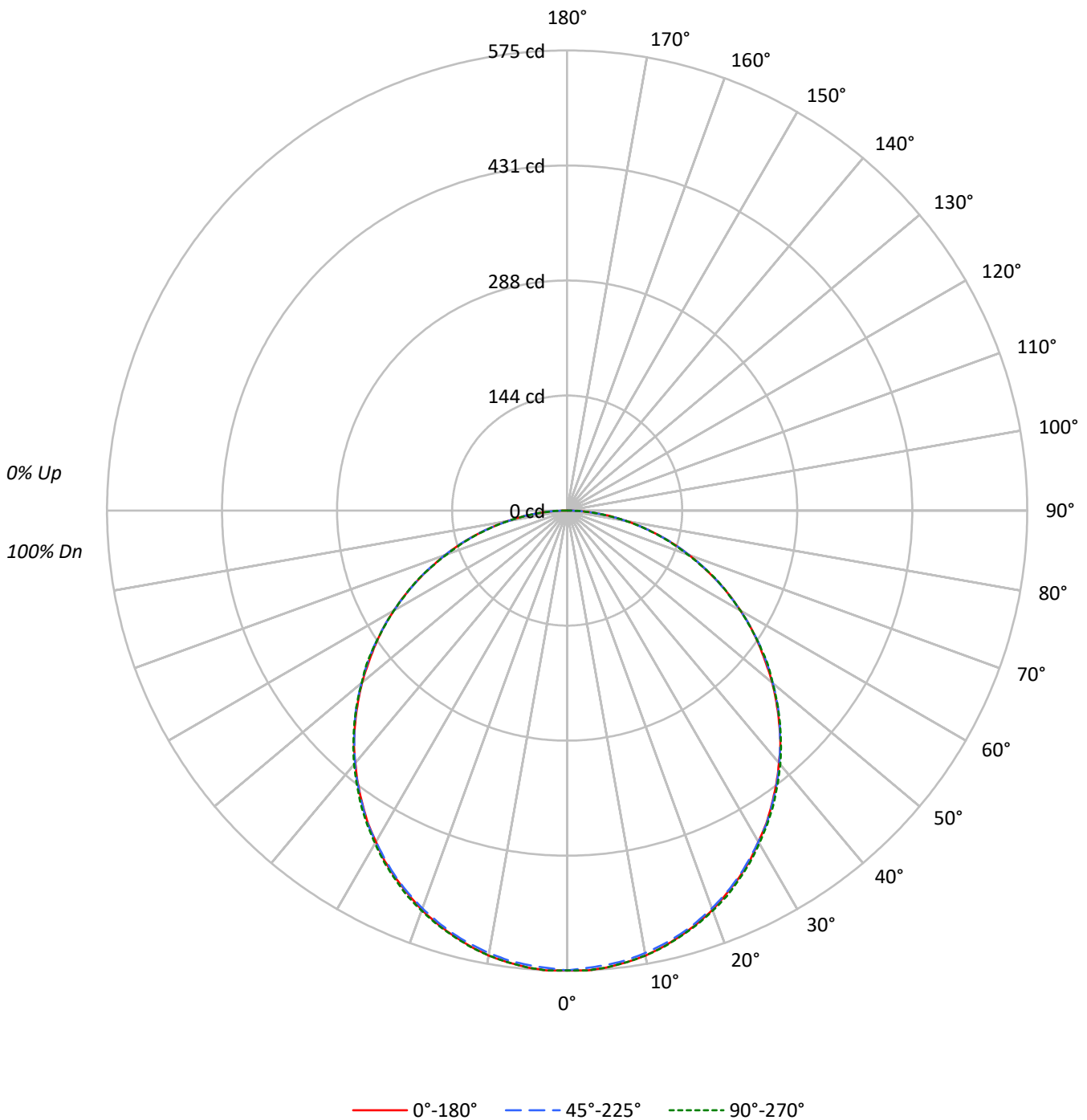
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1546	1546	1546
5°	1548	1539	1548
10°	1543	1534	1543
15°	1532	1526	1533
20°	1521	1515	1523
25°	1505	1502	1510
30°	1485	1485	1492
35°	1466	1468	1475
40°	1447	1448	1456
45°	1425	1429	1431
50°	1401	1405	1403
55°	1372	1380	1377
60°	1345	1345	1345
65°	1314	1314	1321
70°	1273	1273	1260
75°	1229	1223	1218
80°	1172	1164	1156
85°	1102	1087	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.3
10°-20°	155.1	9.4
20°-30°	233.7	14.2
30°-40°	280.0	17.0
40°-50°	289.6	17.6
50°-60°	262.6	16.0
60°-70°	204.1	12.4
70°-80°	124.6	7.6
80°-90°	39.0	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°	443.1	27.0
0°-40°	723.1	44.0
0°-60°	1275.3	77.6
0°-90°	1643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	573	572	570	572	573	54
15°	550	550	548	550	550	155
25°	507	507	506	509	508	233
35°	446	447	447	449	449	279
45°	374	375	376	376	376	289
55°	292	294	294	294	294	262
65°	206	206	206	205	208	204
75°	118	118	118	117	117	125
85°	36	35	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°	574.6	574.6	574.6	574.6	574.6
2.5°	575.1	574.6	572.0	574.6	575.1
5°	573.0	572.5	569.9	572.5	573.0
7.5°	569.3	569.3	566.7	569.3	569.3
10°	564.6	564.1	561.5	564.1	564.6
12.5°	557.8	557.8	555.2	557.8	558.3
15°	549.9	549.9	547.8	550.4	550.4
17.5°	541.0	541.5	538.9	542.0	542.0
20°	531.0	530.5	528.9	531.5	532.0
22.5°	518.9	519.4	517.9	521.0	521.5
25°	506.8	506.8	505.8	508.9	508.4
27.5°	493.7	493.7	492.1	494.8	495.3
30°	477.9	478.5	477.9	480.6	480.1
32.5°	463.2	463.8	463.8	464.8	465.3
35°	446.4	447.0	447.0	449.1	449.1
37.5°	429.6	429.6	430.2	431.7	431.7
40°	411.8	412.3	412.3	413.9	414.4
42.5°	394.4	393.4	393.9	395.5	395.5
45°	374.5	375.0	375.5	376.1	376.1
47.5°	354.5	355.6	356.1	356.6	356.1
50°	334.6	335.6	335.6	335.1	335.1
52.5°	313.0	315.7	315.1	315.1	316.2
55°	292.5	293.6	294.1	294.1	293.6
57.5°	272.1	273.1	272.1	272.6	271.5
60°	250.0	250.5	250.0	250.0	250.0
62.5°	228.5	229.0	227.9	227.9	227.9
65°	206.4	206.4	206.4	205.4	207.5
67.5°	183.3	184.4	184.4	184.9	182.8
70°	161.8	162.3	161.8	161.2	160.2
72.5°	140.2	140.8	141.3	139.2	138.7
75°	118.2	118.2	117.6	117.1	117.1
77.5°	96.6	96.6	96.6	95.6	95.6
80°	75.6	76.2	75.1	75.1	74.6
82.5°	55.1	55.1	55.1	54.6	53.6
85°	35.7	34.7	35.2	34.1	34.1
87.5°	16.3	16.3	16.3	15.2	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)