

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: P291688

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291688
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-LD5-28-FGW080-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1727.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

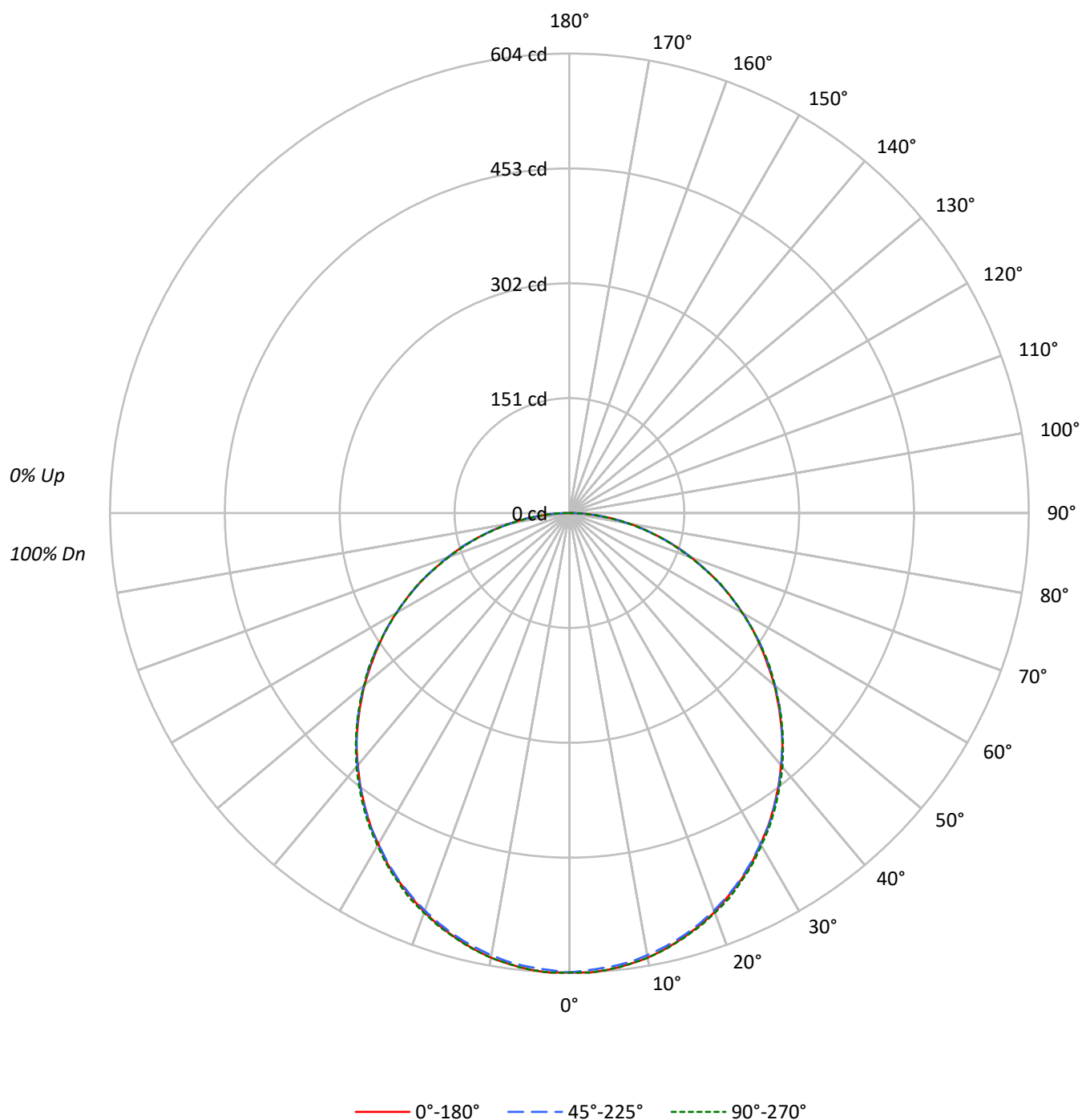
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1625	1625	1625
5°	1627	1618	1627
10°	1622	1613	1622
15°	1610	1604	1612
20°	1598	1592	1601
25°	1582	1578	1587
30°	1561	1561	1568
35°	1542	1543	1551
40°	1520	1522	1530
45°	1498	1502	1504
50°	1472	1477	1474
55°	1443	1451	1448
60°	1414	1414	1414
65°	1382	1382	1389
70°	1338	1338	1325
75°	1291	1286	1280
80°	1232	1223	1215
85°	1158	1142	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.3
10°-20°	163.0	9.4
20°-30°	245.6	14.2
30°-40°	294.4	17.0
40°-50°	304.4	17.6
50°-60°	276.0	16.0
60°-70°	214.5	12.4
70°-80°	131.0	7.6
80°-90°	41.0	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°	465.7	27.0
0°-40°	760.1	44.0
0°-60°	1340.5	77.6
0°-90°	1727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	602	602	599	602	602	57
15°	578	578	576	579	579	163
25°	533	533	532	535	534	245
35°	469	470	470	472	472	294
45°	394	394	395	395	395	304
55°	308	309	309	309	309	275
65°	217	217	217	216	218	214
75°	124	124	124	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°	604.0	604.0	604.0	604.0	604.0
2.5°	604.5	604.0	601.2	604.0	604.5
5°	602.3	601.8	599.0	601.8	602.3
7.5°	598.4	598.4	595.7	598.4	598.4
10°	593.5	592.9	590.2	592.9	593.5
12.5°	586.3	586.3	583.5	586.3	586.9
15°	578.0	578.0	575.8	578.6	578.6
17.5°	568.6	569.2	566.4	569.7	569.7
20°	558.1	557.6	555.9	558.7	559.2
22.5°	545.4	546.0	544.3	547.7	548.2
25°	532.7	532.7	531.6	535.0	534.4
27.5°	518.9	518.9	517.3	520.1	520.6
30°	502.4	502.9	502.4	505.1	504.6
32.5°	486.9	487.5	487.5	488.6	489.1
35°	469.3	469.8	469.8	472.0	472.0
37.5°	451.6	451.6	452.1	453.8	453.8
40°	432.8	433.4	433.4	435.0	435.6
42.5°	414.6	413.5	414.1	415.7	415.7
45°	393.6	394.2	394.7	395.3	395.3
47.5°	372.6	373.8	374.3	374.9	374.3
50°	351.7	352.8	352.8	352.2	352.2
52.5°	329.0	331.8	331.2	331.2	332.3
55°	307.5	308.6	309.2	309.2	308.6
57.5°	286.0	287.1	286.0	286.5	285.4
60°	262.8	263.3	262.8	262.8	262.8
62.5°	240.2	240.7	239.6	239.6	239.6
65°	217.0	217.0	217.0	215.9	218.1
67.5°	192.7	193.8	193.8	194.3	192.1
70°	170.0	170.6	170.0	169.5	168.4
72.5°	147.4	148.0	148.5	146.3	145.7
75°	124.2	124.2	123.7	123.1	123.1
77.5°	101.6	101.6	101.6	100.5	100.5
80°	79.5	80.1	78.9	78.9	78.4
82.5°	58.0	58.0	58.0	57.4	56.3
85°	37.5	36.4	37.0	35.9	35.9
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)