

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: P294230

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-FGW080-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3173.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

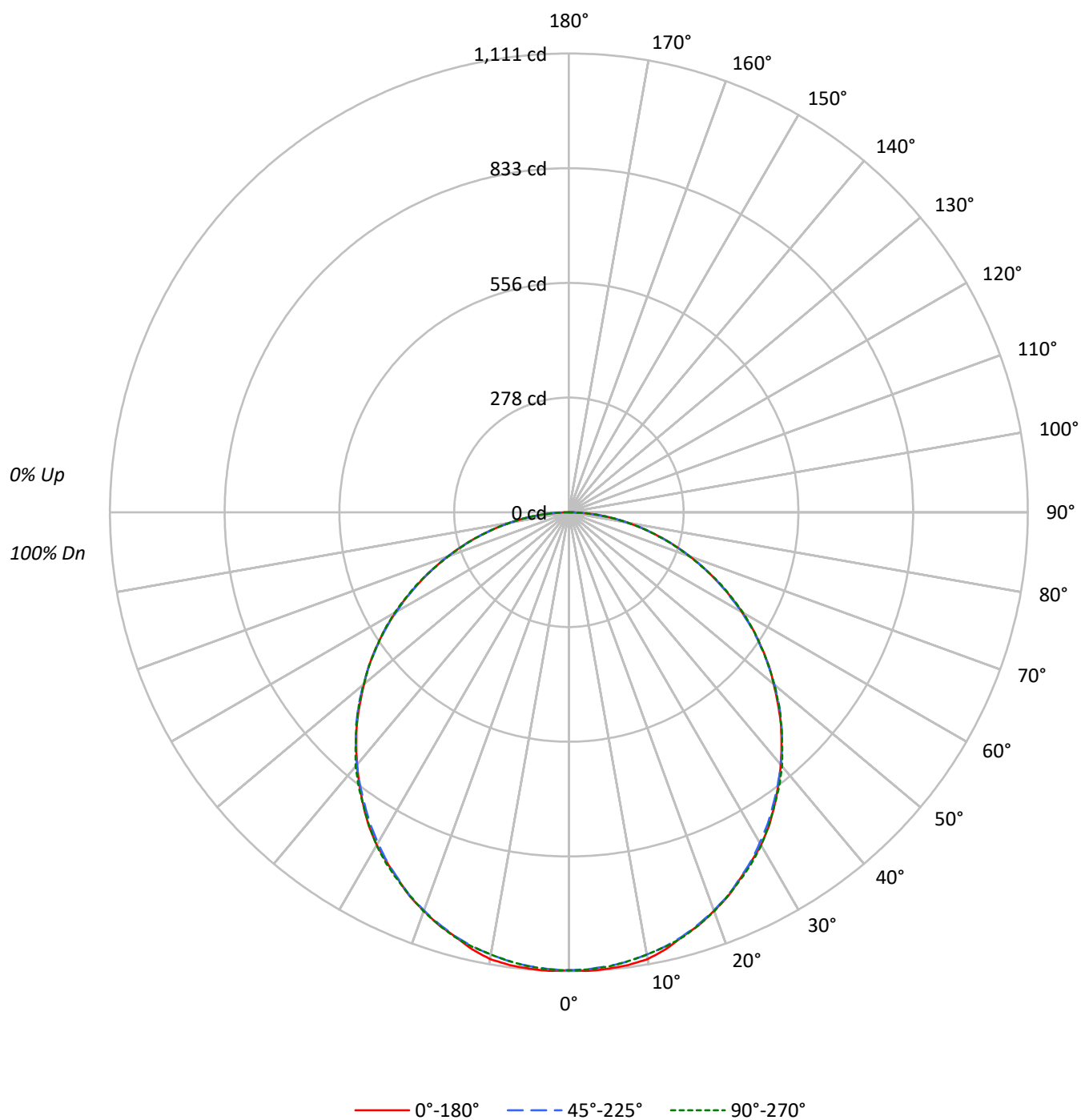
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	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	41	68	55	47	40	53	46	40		52	45	40		50
7	65	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°	1492	1492	1492
5°	1498	1490	1491
10°	1501	1486	1486
15°	1481	1480	1483
20°	1470	1469	1472
25°	1454	1453	1458
30°	1445	1436	1446
35°	1425	1417	1425
40°	1401	1402	1410
45°	1381	1385	1383
50°	1355	1360	1356
55°	1334	1331	1334
60°	1303	1299	1311
65°	1263	1267	1272
70°	1221	1227	1219
75°	1179	1179	1179
80°	1113	1113	1125
85°	1028	1039	1005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.3
10°-20°	299.8	9.4
20°-30°	451.7	14.2
30°-40°	541.1	17.1
40°-50°	560.1	17.7
50°-60°	507.8	16.0
60°-70°	393.7	12.4
70°-80°	239.4	7.5
80°-90°	74.5	2.3
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°	856.4	27.0
0°-40°	1397.5	44.0
0°-60°	2465.4	77.7
0°-90°	3173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1109	1102	1103	1102	1104	106
15°	1063	1064	1063	1059	1065	301
25°	980	980	979	982	982	452
35°	867	861	863	866	867	543
45°	726	727	728	725	727	559
55°	569	566	567	570	569	508
65°	397	399	398	397	400	393
75°	227	226	227	226	227	239
85°	67	66	67	67	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.0	1109.0	1109.0	1109.0	1109.0
2.5°	1111.2	1106.8	1106.8	1105.3	1107.5
5°	1109.0	1102.3	1103.0	1101.5	1103.8
7.5°	1105.3	1096.3	1097.0	1095.5	1096.3
10°	1098.5	1088.0	1087.3	1086.6	1087.3
12.5°	1083.6	1077.6	1076.8	1075.3	1077.6
15°	1063.4	1064.1	1062.6	1058.9	1064.8
17.5°	1047.6	1046.9	1045.4	1041.7	1047.6
20°	1026.7	1027.4	1025.9	1024.4	1028.2
22.5°	1006.5	1004.2	1005.0	1004.2	1005.0
25°	979.5	979.5	978.8	981.8	981.8
27.5°	954.8	951.9	953.4	956.3	957.8
30°	930.2	922.7	924.2	927.2	930.9
32.5°	901.0	893.5	895.0	898.0	899.5
35°	867.3	861.3	862.8	866.5	867.3
37.5°	832.9	829.1	830.6	833.6	835.9
40°	797.7	796.2	798.5	797.7	802.9
42.5°	761.8	761.0	763.3	763.3	764.0
45°	725.9	727.4	728.1	725.1	726.6
47.5°	686.2	687.0	689.9	688.4	689.2
50°	647.3	646.5	649.5	650.3	648.0
52.5°	609.9	606.1	609.1	610.6	609.1
55°	568.7	565.7	567.2	569.5	568.7
57.5°	528.3	525.3	526.1	529.8	528.3
60°	484.2	483.4	482.7	485.7	487.2
62.5°	440.8	440.0	438.5	441.5	443.0
65°	396.6	398.9	398.1	396.6	399.6
67.5°	354.7	356.9	354.7	353.2	353.2
70°	310.5	312.8	312.0	310.5	309.8
72.5°	269.4	269.4	267.9	267.1	267.9
75°	226.7	226.0	226.7	226.0	226.7
77.5°	184.8	185.6	185.6	185.6	184.8
80°	143.7	143.7	143.7	144.4	145.2
82.5°	105.5	103.3	105.5	104.0	104.8
85°	66.6	65.9	67.3	66.6	65.1
87.5°	29.9	30.7	30.7	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)