

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: P294179

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294179
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-LD5-38-FGW080-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3170.0 lumens
Efficiency: N/A
Efficacy: 125.3 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

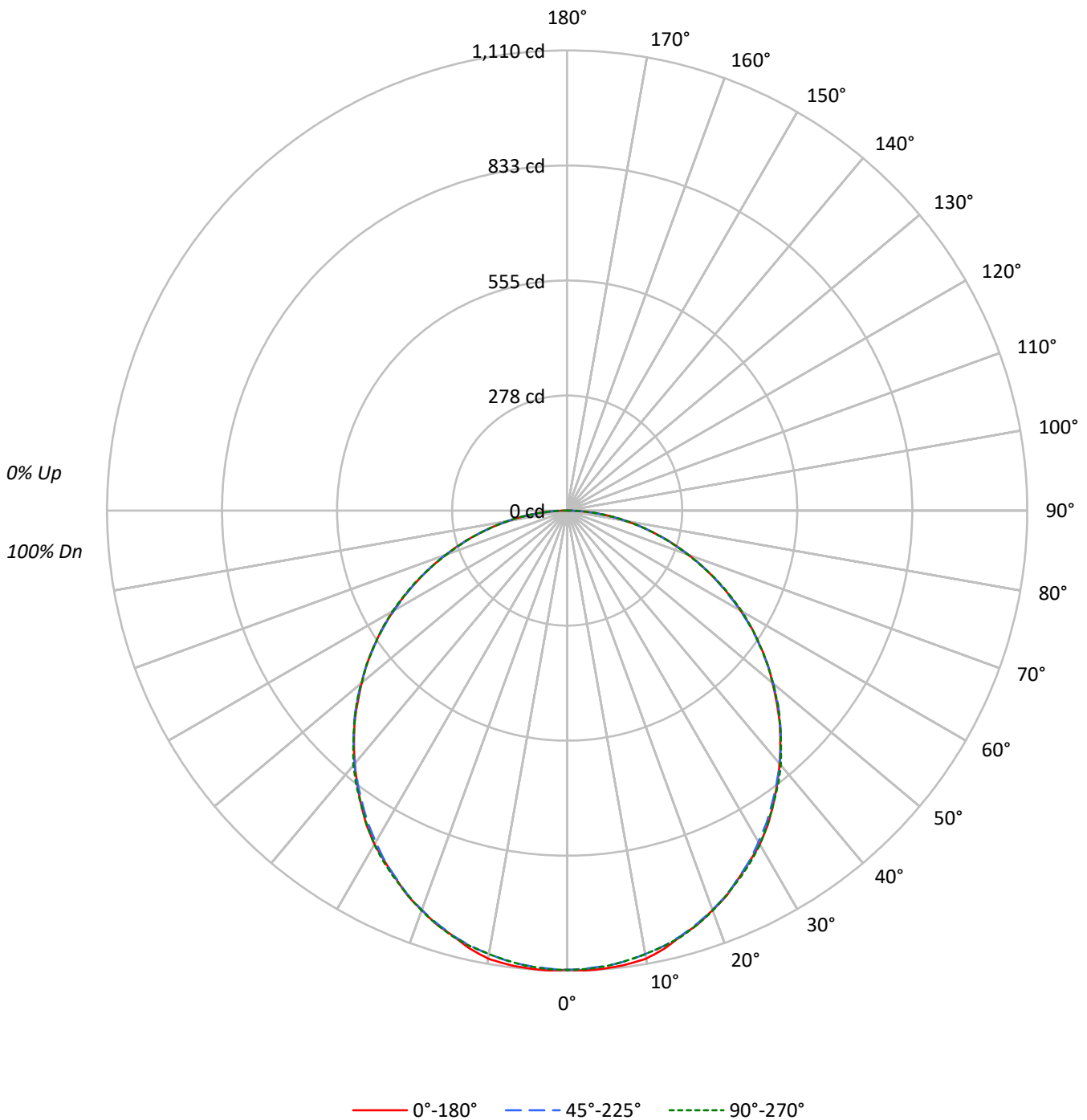
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	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	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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°	1491	1491	1491
5°	1496	1488	1489
10°	1499	1484	1484
15°	1480	1479	1482
20°	1469	1468	1471
25°	1453	1452	1456
30°	1444	1434	1445
35°	1423	1416	1423
40°	1400	1401	1409
45°	1380	1384	1381
50°	1354	1358	1355
55°	1333	1329	1333
60°	1302	1298	1310
65°	1261	1266	1271
70°	1221	1227	1218
75°	1177	1177	1177
80°	1112	1112	1124
85°	1027	1039	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.3
10°-20°	299.5	9.4
20°-30°	451.3	14.2
30°-40°	540.6	17.1
40°-50°	559.5	17.7
50°-60°	507.4	16.0
60°-70°	393.4	12.4
70°-80°	239.2	7.5
80°-90°	74.4	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°	855.6	27.0
0°-40°	1396.1	44.0
0°-60°	2463.0	77.7
0°-90°	3170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1108	1101	1102	1100	1103	105
15°	1062	1063	1062	1058	1064	300
25°	979	979	978	981	981	452
35°	866	860	862	866	866	542
45°	725	727	727	724	726	559
55°	568	565	567	569	568	508
65°	396	398	398	396	399	393
75°	226	226	226	226	226	239
85°	66	66	67	66	65	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.0	1108.0	1108.0	1108.0	1108.0
2.5°	1110.2	1105.7	1105.7	1104.2	1106.5
5°	1108.0	1101.2	1102.0	1100.5	1102.7
7.5°	1104.2	1095.2	1096.0	1094.5	1095.2
10°	1097.5	1087.0	1086.3	1085.5	1086.3
12.5°	1082.5	1076.6	1075.8	1074.3	1076.6
15°	1062.3	1063.1	1061.6	1057.9	1063.8
17.5°	1046.6	1045.9	1044.4	1040.7	1046.6
20°	1025.7	1026.5	1025.0	1023.5	1027.2
22.5°	1005.5	1003.3	1004.0	1003.3	1004.0
25°	978.6	978.6	977.9	980.9	980.9
27.5°	953.9	951.0	952.4	955.4	956.9
30°	929.3	921.8	923.3	926.3	930.0
32.5°	900.1	892.6	894.1	897.1	898.6
35°	866.5	860.5	862.0	865.7	866.5
37.5°	832.1	828.3	829.8	832.8	835.1
40°	796.9	795.5	797.7	796.9	802.2
42.5°	761.1	760.3	762.6	762.6	763.3
45°	725.2	726.7	727.4	724.4	725.9
47.5°	685.6	686.3	689.3	687.8	688.5
50°	646.7	645.9	648.9	649.7	647.4
52.5°	609.3	605.6	608.6	610.0	608.6
55°	568.2	565.2	566.7	568.9	568.2
57.5°	527.8	524.8	525.6	529.3	527.8
60°	483.7	483.0	482.2	485.2	486.7
62.5°	440.3	439.6	438.1	441.1	442.6
65°	396.2	398.5	397.7	396.2	399.2
67.5°	354.4	356.6	354.4	352.9	352.9
70°	310.3	312.5	311.8	310.3	309.5
72.5°	269.1	269.1	267.6	266.9	267.6
75°	226.5	225.8	226.5	225.8	226.5
77.5°	184.7	185.4	185.4	185.4	184.7
80°	143.5	143.5	143.5	144.3	145.0
82.5°	105.4	103.2	105.4	103.9	104.7
85°	66.5	65.8	67.3	66.5	65.0
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)