

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: P294233

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294233
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-L82765-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: 3168.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

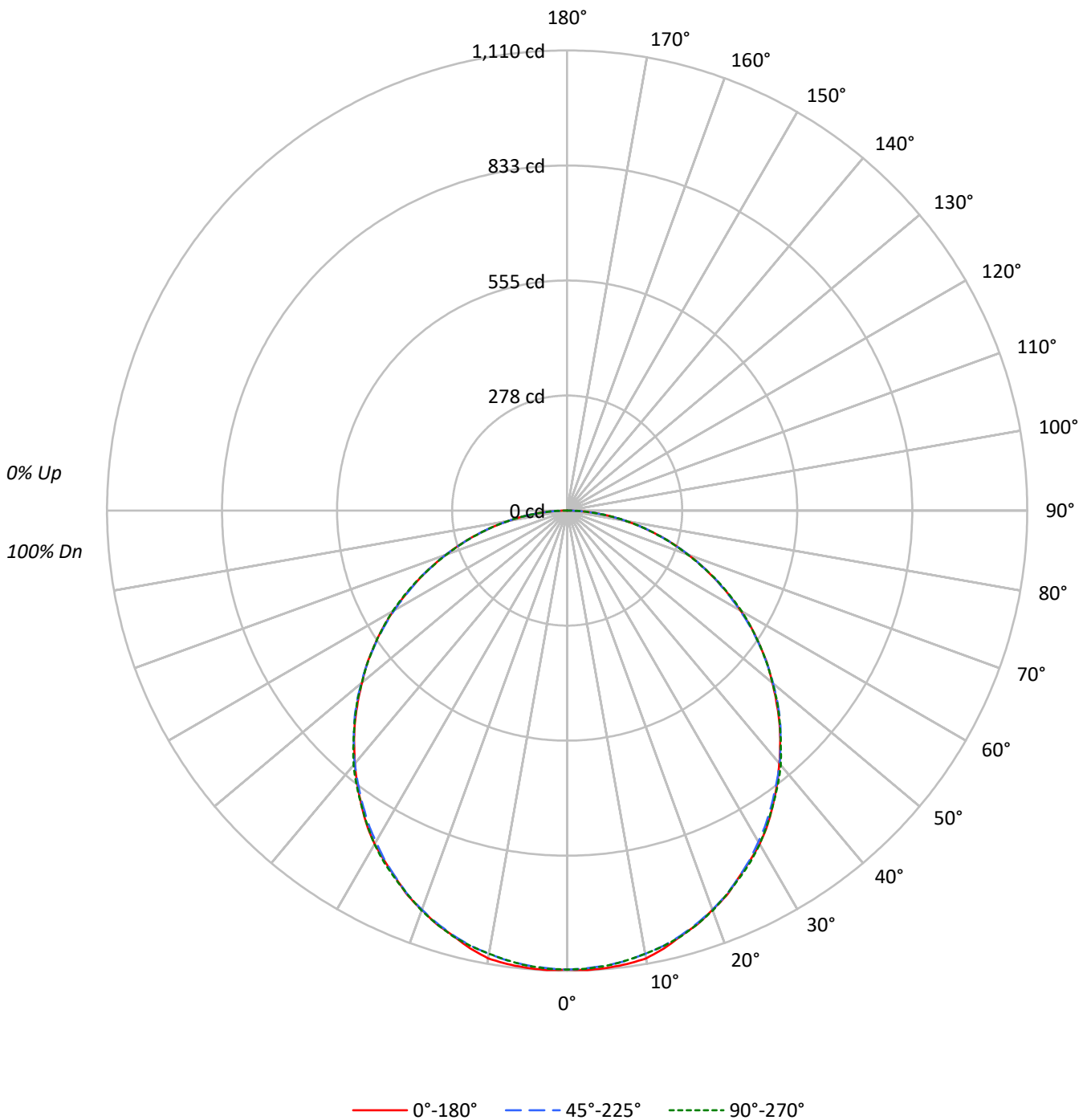
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1490	1490	1490
5°	1496	1487	1488
10°	1498	1483	1483
15°	1479	1478	1481
20°	1468	1467	1470
25°	1452	1451	1455
30°	1443	1434	1444
35°	1422	1415	1422
40°	1399	1400	1408
45°	1379	1383	1380
50°	1353	1357	1354
55°	1332	1328	1332
60°	1301	1297	1309
65°	1261	1266	1270
70°	1220	1226	1217
75°	1177	1177	1177
80°	1111	1111	1123
85°	1027	1037	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.3
10°-20°	299.3	9.4
20°-30°	451.0	14.2
30°-40°	540.2	17.1
40°-50°	559.2	17.7
50°-60°	507.0	16.0
60°-70°	393.1	12.4
70°-80°	239.1	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°	855.0	27.0
0°-40°	1395.2	44.0
0°-60°	2461.5	77.7
0°-90°	3168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1107	1100	1101	1100	1102	105
15°	1062	1062	1061	1057	1063	300
25°	978	978	977	980	980	451
35°	866	860	861	865	866	542
45°	725	726	727	724	726	558
55°	568	565	566	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°	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1109.5	1105.0	1105.0	1103.5	1105.8
5°	1107.3	1100.5	1101.3	1099.8	1102.0
7.5°	1103.5	1094.6	1095.3	1093.8	1094.6
10°	1096.8	1086.3	1085.6	1084.8	1085.6
12.5°	1081.8	1075.9	1075.1	1073.6	1075.9
15°	1061.7	1062.4	1060.9	1057.2	1063.2
17.5°	1046.0	1045.2	1043.7	1040.0	1046.0
20°	1025.1	1025.8	1024.3	1022.8	1026.6
22.5°	1004.9	1002.7	1003.4	1002.7	1003.4
25°	978.0	978.0	977.3	980.2	980.2
27.5°	953.3	950.4	951.8	954.8	956.3
30°	928.7	921.2	922.7	925.7	929.4
32.5°	899.5	892.1	893.6	896.6	898.1
35°	865.9	860.0	861.4	865.2	865.9
37.5°	831.6	827.8	829.3	832.3	834.5
40°	796.4	795.0	797.2	796.4	801.7
42.5°	760.6	759.8	762.1	762.1	762.8
45°	724.7	726.2	727.0	724.0	725.5
47.5°	685.1	685.9	688.9	687.4	688.1
50°	646.3	645.5	648.5	649.3	647.0
52.5°	608.9	605.2	608.2	609.7	608.2
55°	567.8	564.8	566.3	568.6	567.8
57.5°	527.5	524.5	525.2	529.0	527.5
60°	483.4	482.6	481.9	484.9	486.4
62.5°	440.1	439.3	437.8	440.8	442.3
65°	396.0	398.2	397.5	396.0	399.0
67.5°	354.1	356.4	354.1	352.6	352.6
70°	310.1	312.3	311.6	310.1	309.3
72.5°	269.0	269.0	267.5	266.7	267.5
75°	226.4	225.6	226.4	225.6	226.4
77.5°	184.5	185.3	185.3	185.3	184.5
80°	143.4	143.4	143.4	144.2	144.9
82.5°	105.3	103.1	105.3	103.9	104.6
85°	66.5	65.7	67.2	66.5	65.0
87.5°	29.9	30.6	30.6	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)