

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: P294364

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294364
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-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3149.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

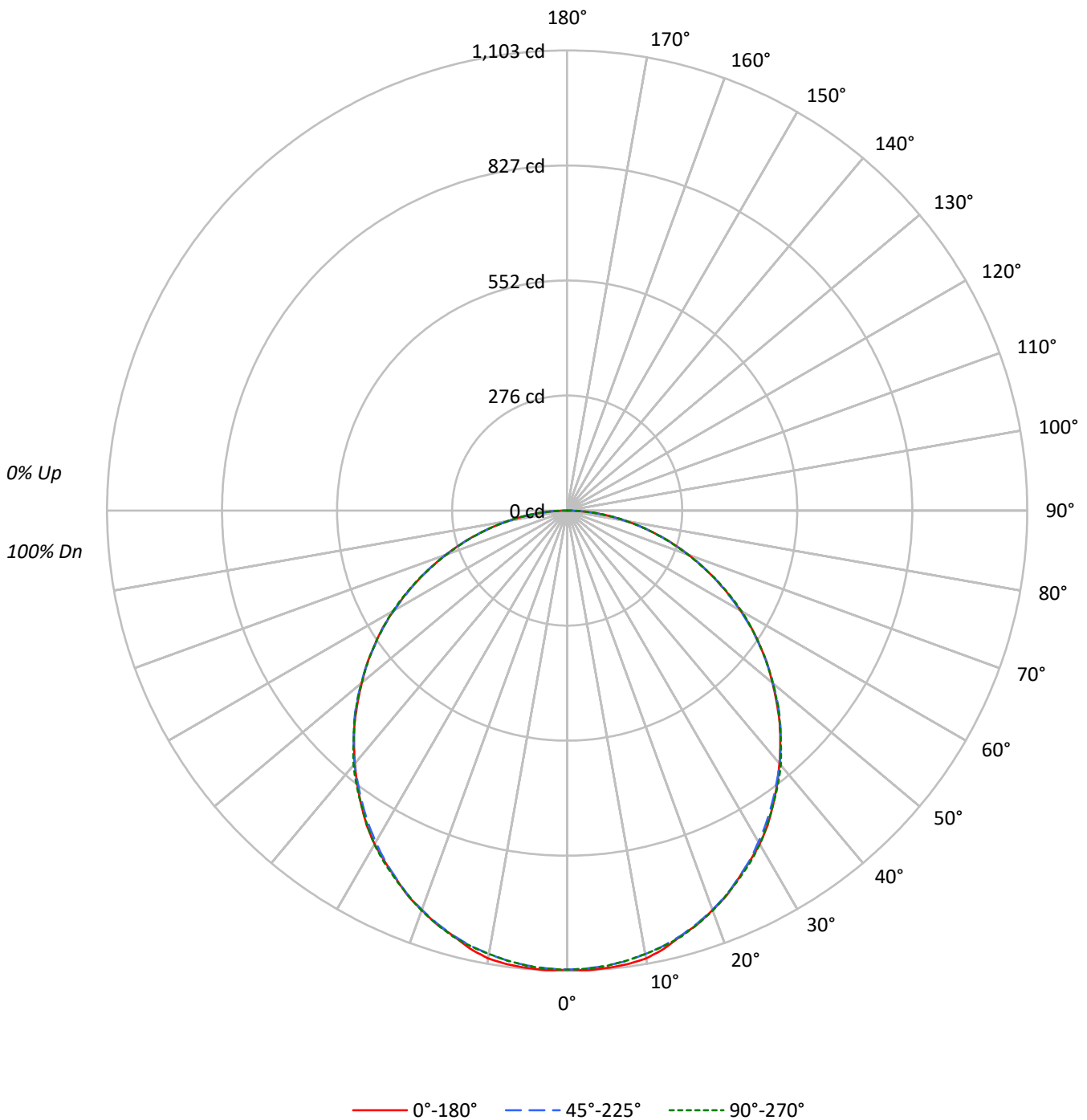
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1481	1481	1481
5°	1487	1479	1479
10°	1489	1474	1474
15°	1470	1469	1472
20°	1459	1458	1461
25°	1443	1442	1447
30°	1434	1425	1435
35°	1414	1407	1414
40°	1391	1392	1400
45°	1371	1375	1372
50°	1345	1349	1346
55°	1324	1320	1324
60°	1293	1289	1301
65°	1253	1258	1263
70°	1212	1218	1210
75°	1170	1170	1170
80°	1105	1105	1117
85°	1020	1031	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.3
10°-20°	297.5	9.4
20°-30°	448.3	14.2
30°-40°	537.0	17.1
40°-50°	555.8	17.7
50°-60°	504.0	16.0
60°-70°	390.7	12.4
70°-80°	237.6	7.5
80°-90°	73.9	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°	849.9	27.0
0°-40°	1386.9	44.0
0°-60°	2446.7	77.7
0°-90°	3149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1101	1094	1095	1093	1095	105
15°	1055	1056	1055	1051	1057	298
25°	972	972	971	974	974	449
35°	861	855	856	860	861	538
45°	720	722	723	720	721	555
55°	564	561	563	565	564	504
65°	394	396	395	394	397	390
75°	225	224	225	224	225	238
85°	66	65	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°	1100.6	1100.6	1100.6	1100.6	1100.6
2.5°	1102.8	1098.4	1098.4	1096.9	1099.1
5°	1100.6	1093.9	1094.7	1093.2	1095.4
7.5°	1096.9	1088.0	1088.7	1087.2	1088.0
10°	1090.2	1079.8	1079.1	1078.3	1079.1
12.5°	1075.4	1069.4	1068.7	1067.2	1069.4
15°	1055.3	1056.1	1054.6	1050.9	1056.8
17.5°	1039.7	1039.0	1037.5	1033.8	1039.7
20°	1018.9	1019.7	1018.2	1016.7	1020.4
22.5°	998.9	996.6	997.4	996.6	997.4
25°	972.1	972.1	971.4	974.4	974.4
27.5°	947.6	944.7	946.1	949.1	950.6
30°	923.1	915.7	917.2	920.1	923.9
32.5°	894.2	886.7	888.2	891.2	892.7
35°	860.7	854.8	856.3	860.0	860.7
37.5°	826.6	822.9	824.3	827.3	829.5
40°	791.7	790.2	792.4	791.7	796.9
42.5°	756.0	755.3	757.5	757.5	758.2
45°	720.4	721.9	722.6	719.6	721.1
47.5°	681.0	681.8	684.7	683.2	684.0
50°	642.4	641.7	644.6	645.4	643.1
52.5°	605.3	601.5	604.5	606.0	604.5
55°	564.4	561.4	562.9	565.2	564.4
57.5°	524.3	521.3	522.1	525.8	524.3
60°	480.5	479.8	479.0	482.0	483.5
62.5°	437.4	436.7	435.2	438.2	439.7
65°	393.6	395.8	395.1	393.6	396.6
67.5°	352.0	354.2	352.0	350.5	350.5
70°	308.2	310.4	309.7	308.2	307.5
72.5°	267.4	267.4	265.9	265.1	265.9
75°	225.0	224.3	225.0	224.3	225.0
77.5°	183.4	184.2	184.2	184.2	183.4
80°	142.6	142.6	142.6	143.3	144.1
82.5°	104.7	102.5	104.7	103.2	104.0
85°	66.1	65.4	66.8	66.1	64.6
87.5°	29.7	30.4	30.4	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)