

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: P294311

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294311
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-LD5-42-FGW080-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3107.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

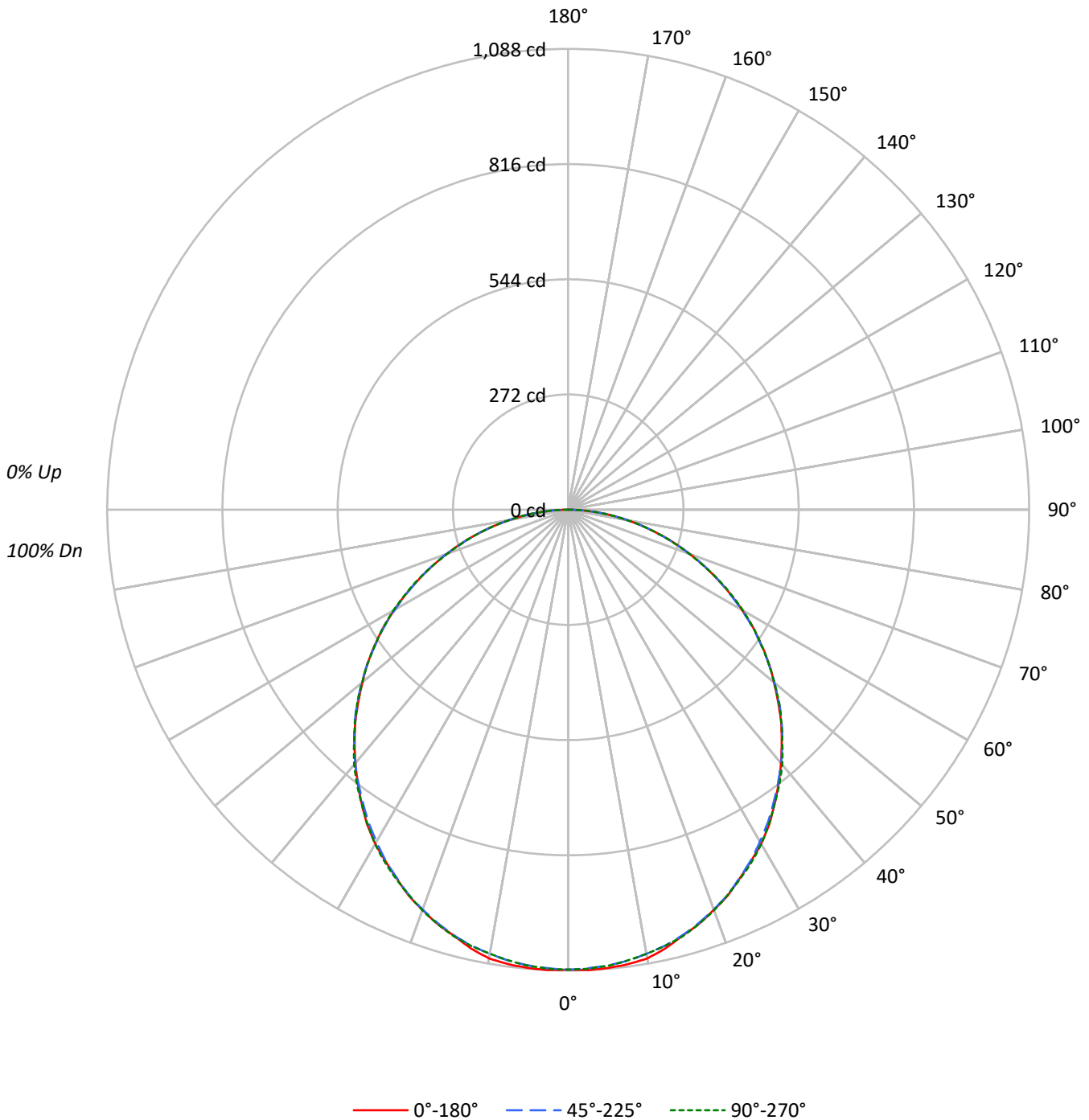
Input Watts (W): 28.524867
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1461	1461	1461
5°	1467	1459	1460
10°	1470	1455	1455
15°	1450	1449	1452
20°	1439	1438	1442
25°	1424	1423	1427
30°	1415	1406	1416
35°	1395	1388	1395
40°	1372	1373	1381
45°	1353	1357	1354
50°	1327	1331	1328
55°	1306	1303	1306
60°	1276	1272	1284
65°	1237	1241	1246
70°	1196	1202	1194
75°	1154	1154	1154
80°	1090	1090	1102
85°	1007	1017	983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.3
10°-20°	293.5	9.4
20°-30°	442.4	14.2
30°-40°	529.8	17.1
40°-50°	548.4	17.7
50°-60°	497.3	16.0
60°-70°	385.5	12.4
70°-80°	234.5	7.5
80°-90°	72.9	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°	838.6	27.0
0°-40°	1368.4	44.0
0°-60°	2414.1	77.7
0°-90°	3107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1086	1079	1080	1079	1081	103
15°	1041	1042	1040	1037	1043	294
25°	959	959	958	961	961	443
35°	849	843	845	848	849	531
45°	711	712	713	710	712	548
55°	557	554	555	558	557	498
65°	388	391	390	388	391	385
75°	222	221	222	221	222	235
85°	65	64	66	65	64	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.9	1085.9	1085.9	1085.9	1085.9
2.5°	1088.1	1083.7	1083.7	1082.3	1084.5
5°	1085.9	1079.3	1080.1	1078.6	1080.8
7.5°	1082.3	1073.5	1074.2	1072.7	1073.5
10°	1075.7	1065.4	1064.7	1063.9	1064.7
12.5°	1061.0	1055.2	1054.4	1053.0	1055.2
15°	1041.2	1042.0	1040.5	1036.8	1042.7
17.5°	1025.8	1025.1	1023.6	1020.0	1025.8
20°	1005.3	1006.1	1004.6	1003.1	1006.8
22.5°	985.5	983.3	984.1	983.3	984.1
25°	959.2	959.2	958.4	961.4	961.4
27.5°	935.0	932.1	933.5	936.5	937.9
30°	910.8	903.5	904.9	907.9	911.5
32.5°	882.2	874.9	876.4	879.3	880.8
35°	849.3	843.4	844.9	848.5	849.3
37.5°	815.5	811.9	813.4	816.3	818.5
40°	781.1	779.6	781.8	781.1	786.2
42.5°	745.9	745.2	747.4	747.4	748.1
45°	710.8	712.2	713.0	710.0	711.5
47.5°	671.9	672.7	675.6	674.1	674.9
50°	633.8	633.1	636.0	636.8	634.6
52.5°	597.2	593.5	596.5	597.9	596.5
55°	556.9	554.0	555.4	557.6	556.9
57.5°	517.3	514.4	515.1	518.8	517.3
60°	474.1	473.4	472.6	475.6	477.0
62.5°	431.6	430.9	429.4	432.3	433.8
65°	388.4	390.6	389.8	388.4	391.3
67.5°	347.3	349.5	347.3	345.9	345.9
70°	304.1	306.3	305.6	304.1	303.4
72.5°	263.8	263.8	262.3	261.6	262.3
75°	222.0	221.3	222.0	221.3	222.0
77.5°	181.0	181.7	181.7	181.7	181.0
80°	140.7	140.7	140.7	141.4	142.2
82.5°	103.3	101.1	103.3	101.9	102.6
85°	65.2	64.5	65.9	65.2	63.7
87.5°	29.3	30.0	30.0	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)