

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: P294359

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294359  
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-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2734.0 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

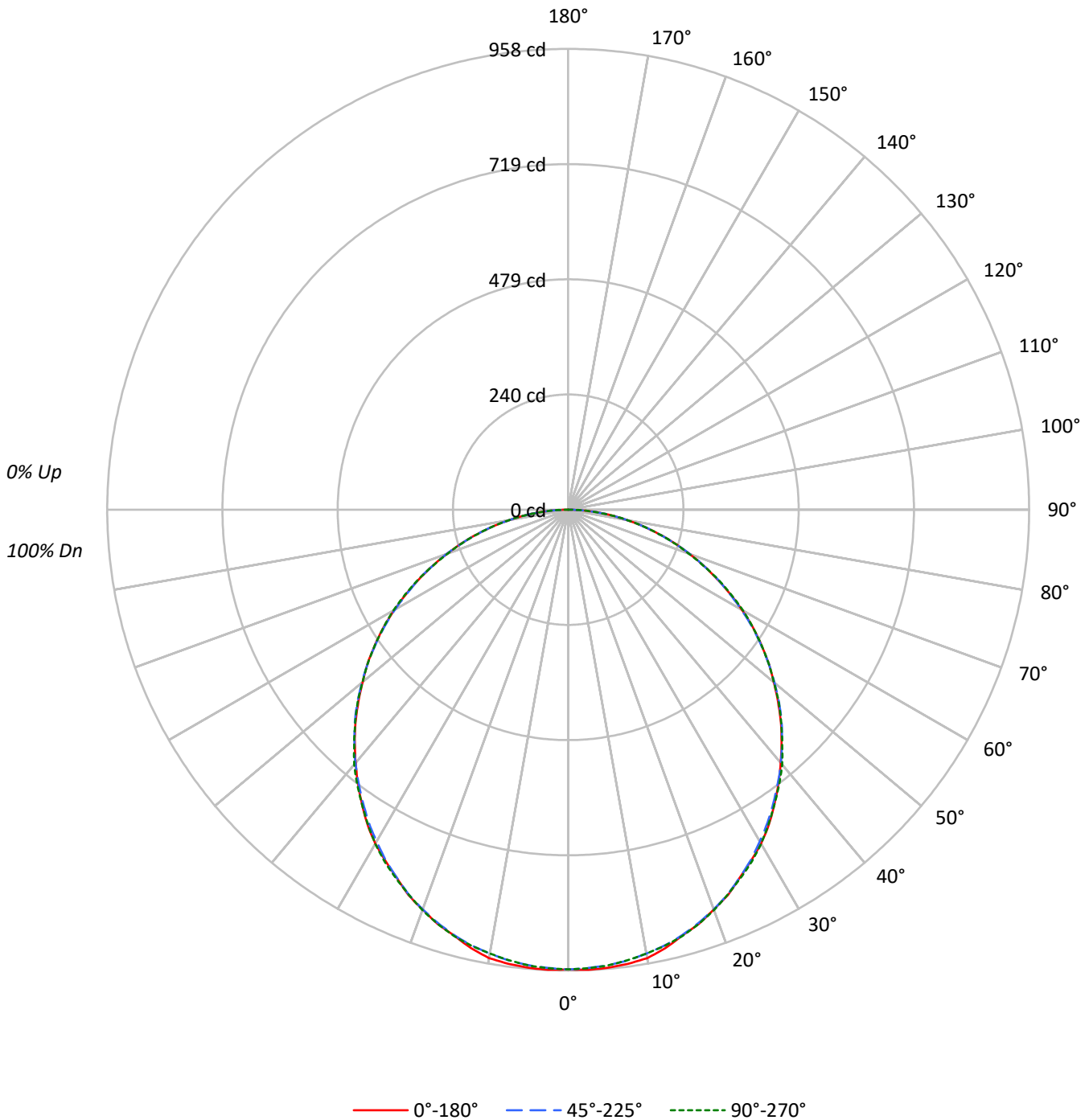
Input Watts (W): 25.11  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1286	1286	1286
5°	1291	1284	1285
10°	1293	1280	1280
15°	1276	1275	1278
20°	1267	1266	1268
25°	1253	1252	1256
30°	1245	1237	1246
35°	1227	1221	1227
40°	1207	1208	1215
45°	1190	1194	1191
50°	1167	1172	1169
55°	1149	1146	1149
60°	1123	1119	1130
65°	1088	1092	1096
70°	1053	1058	1050
75°	1016	1016	1016
80°	959	959	969
85°	886	895	866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	3.3
10°-20°	258.3	9.4
20°-30°	389.2	14.2
30°-40°	466.2	17.1
40°-50°	482.6	17.7
50°-60°	437.6	16.0
60°-70°	339.2	12.4
70°-80°	206.3	7.5
80°-90°	64.2	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°	737.9	27.0
0°-40°	1204.1	44.0
0°-60°	2124.3	77.7
0°-90°	2734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	956	950	950	949	951	91
15°	916	917	916	912	918	259
25°	844	844	843	846	846	390
35°	747	742	743	747	747	467
45°	625	627	627	625	626	482
55°	490	488	489	491	490	438
65°	342	344	343	342	344	339
75°	195	195	195	195	195	206
85°	57	57	58	57	56	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	955.6	955.6	955.6	955.6	955.6
2.5°	957.5	953.6	953.6	952.3	954.3
5°	955.6	949.8	950.4	949.1	951.1
7.5°	952.3	944.6	945.2	944.0	944.6
10°	946.5	937.5	936.9	936.2	936.9
12.5°	933.6	928.5	927.8	926.5	928.5
15°	916.2	916.9	915.6	912.4	917.5
17.5°	902.7	902.0	900.8	897.5	902.7
20°	884.6	885.3	884.0	882.7	885.9
22.5°	867.2	865.3	865.9	865.3	865.9
25°	844.0	844.0	843.4	846.0	846.0
27.5°	822.7	820.2	821.5	824.0	825.3
30°	801.5	795.0	796.3	798.9	802.1
32.5°	776.3	769.9	771.2	773.7	775.0
35°	747.3	742.1	743.4	746.7	747.3
37.5°	717.6	714.4	715.7	718.3	720.2
40°	687.3	686.0	688.0	687.3	691.8
42.5°	656.4	655.7	657.7	657.7	658.3
45°	625.4	626.7	627.4	624.8	626.1
47.5°	591.3	591.9	594.5	593.2	593.8
50°	557.7	557.1	559.7	560.3	558.4
52.5°	525.5	522.3	524.9	526.1	524.9
55°	490.0	487.5	488.7	490.7	490.0
57.5°	455.2	452.6	453.3	456.5	455.2
60°	417.2	416.5	415.9	418.5	419.8
62.5°	379.8	379.1	377.8	380.4	381.7
65°	341.7	343.7	343.0	341.7	344.3
67.5°	305.6	307.6	305.6	304.3	304.3
70°	267.6	269.5	268.9	267.6	266.9
72.5°	232.1	232.1	230.8	230.2	230.8
75°	195.4	194.7	195.4	194.7	195.4
77.5°	159.3	159.9	159.9	159.9	159.3
80°	123.8	123.8	123.8	124.4	125.1
82.5°	90.9	89.0	90.9	89.6	90.3
85°	57.4	56.7	58.0	57.4	56.1
87.5°	25.8	26.4	26.4	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)