

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: P294224

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294224  
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-LD5-34-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: 2874.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 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

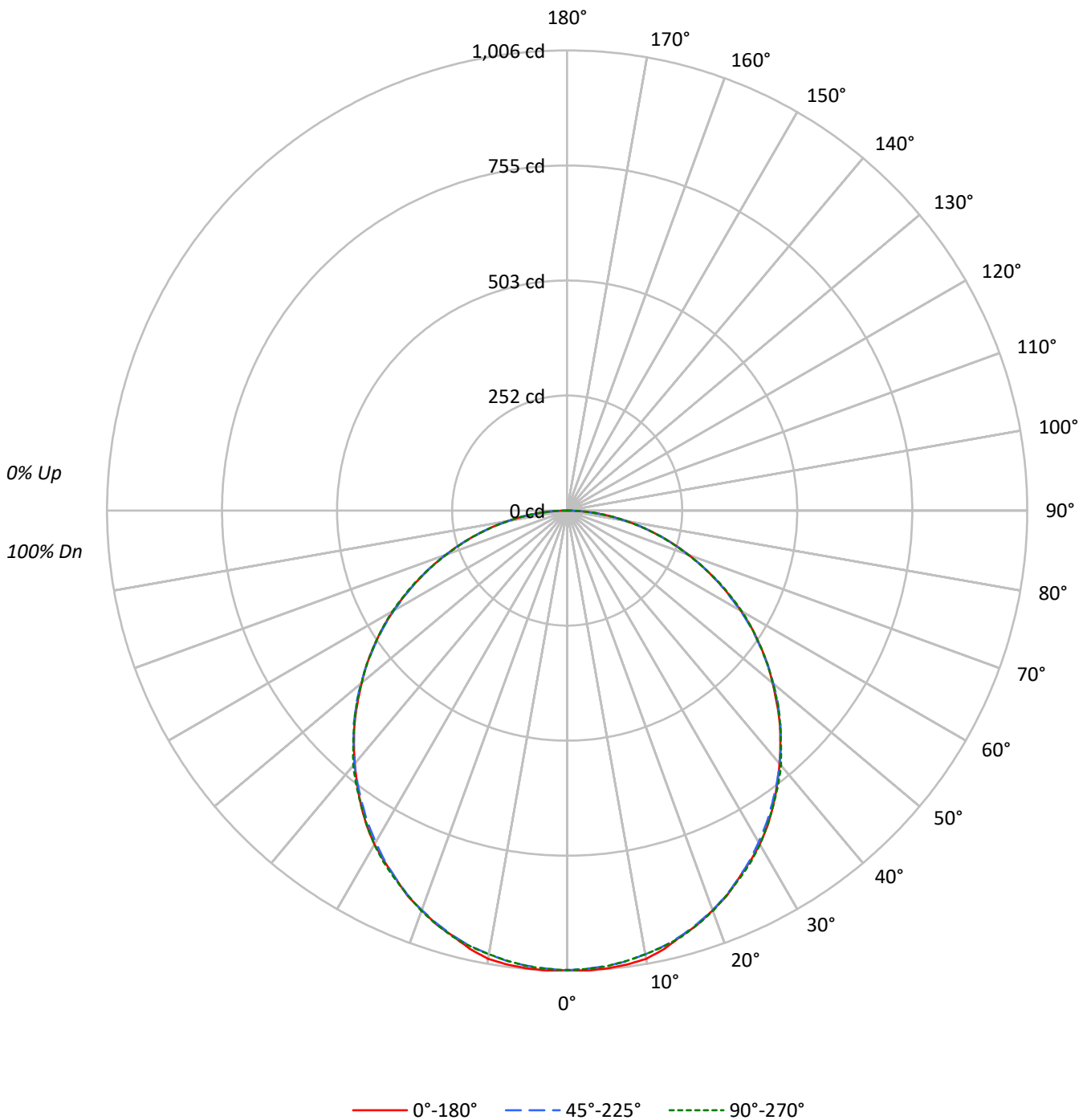
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1352	1352	1352
5°	1357	1349	1350
10°	1359	1345	1345
15°	1342	1341	1344
20°	1331	1331	1333
25°	1317	1316	1320
30°	1309	1301	1310
35°	1290	1284	1290
40°	1269	1270	1277
45°	1251	1255	1252
50°	1227	1231	1229
55°	1208	1205	1208
60°	1180	1176	1187
65°	1144	1148	1152
70°	1107	1112	1104
75°	1068	1068	1068
80°	1008	1008	1019
85°	931	942	911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	3.3
10°-20°	271.5	9.4
20°-30°	409.2	14.2
30°-40°	490.1	17.1
40°-50°	507.3	17.7
50°-60°	460.0	16.0
60°-70°	356.6	12.4
70°-80°	216.9	7.5
80°-90°	67.5	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°	775.7	27.0
0°-40°	1265.8	44.0
0°-60°	2233.0	77.7
0°-90°	2874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1004	998	999	998	1000	96
15°	963	964	962	959	964	272
25°	887	887	887	889	889	410
35°	786	780	782	785	786	491
45°	658	659	660	657	658	506
55°	515	512	514	516	515	460
65°	359	361	361	359	362	356
75°	205	205	205	205	205	217
85°	60	60	61	60	59	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1004.5	1004.5	1004.5	1004.5	1004.5
2.5°	1006.5	1002.5	1002.5	1001.1	1003.1
5°	1004.5	998.4	999.1	997.7	999.8
7.5°	1001.1	993.0	993.7	992.3	993.0
10°	995.0	985.5	984.8	984.2	984.8
12.5°	981.5	976.0	975.4	974.0	976.0
15°	963.2	963.8	962.5	959.1	964.5
17.5°	948.9	948.2	946.9	943.5	948.9
20°	929.9	930.6	929.3	927.9	931.3
22.5°	911.6	909.6	910.3	909.6	910.3
25°	887.2	887.2	886.6	889.3	889.3
27.5°	864.9	862.2	863.5	866.2	867.6
30°	842.5	835.7	837.1	839.8	843.2
32.5°	816.1	809.3	810.6	813.4	814.7
35°	785.6	780.1	781.5	784.9	785.6
37.5°	754.4	751.0	752.4	755.1	757.1
40°	722.5	721.2	723.2	722.5	727.3
42.5°	690.0	689.3	691.4	691.4	692.0
45°	657.5	658.8	659.5	656.8	658.1
47.5°	621.5	622.2	624.9	623.6	624.3
50°	586.3	585.6	588.3	589.0	587.0
52.5°	552.4	549.0	551.7	553.1	551.7
55°	515.1	512.4	513.8	515.8	515.1
57.5°	478.5	475.8	476.5	479.9	478.5
60°	438.5	437.9	437.2	439.9	441.2
62.5°	399.2	398.5	397.2	399.9	401.3
65°	359.2	361.3	360.6	359.2	361.9
67.5°	321.3	323.3	321.3	319.9	319.9
70°	281.3	283.3	282.6	281.3	280.6
72.5°	244.0	244.0	242.7	242.0	242.7
75°	205.4	204.7	205.4	204.7	205.4
77.5°	167.4	168.1	168.1	168.1	167.4
80°	130.1	130.1	130.1	130.8	131.5
82.5°	95.6	93.5	95.6	94.2	94.9
85°	60.3	59.6	61.0	60.3	59.0
87.5°	27.1	27.8	27.8	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)