

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: P294223

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294223  
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-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2793.0 lumens  
Efficiency: N/A  
Efficacy: 121.6 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

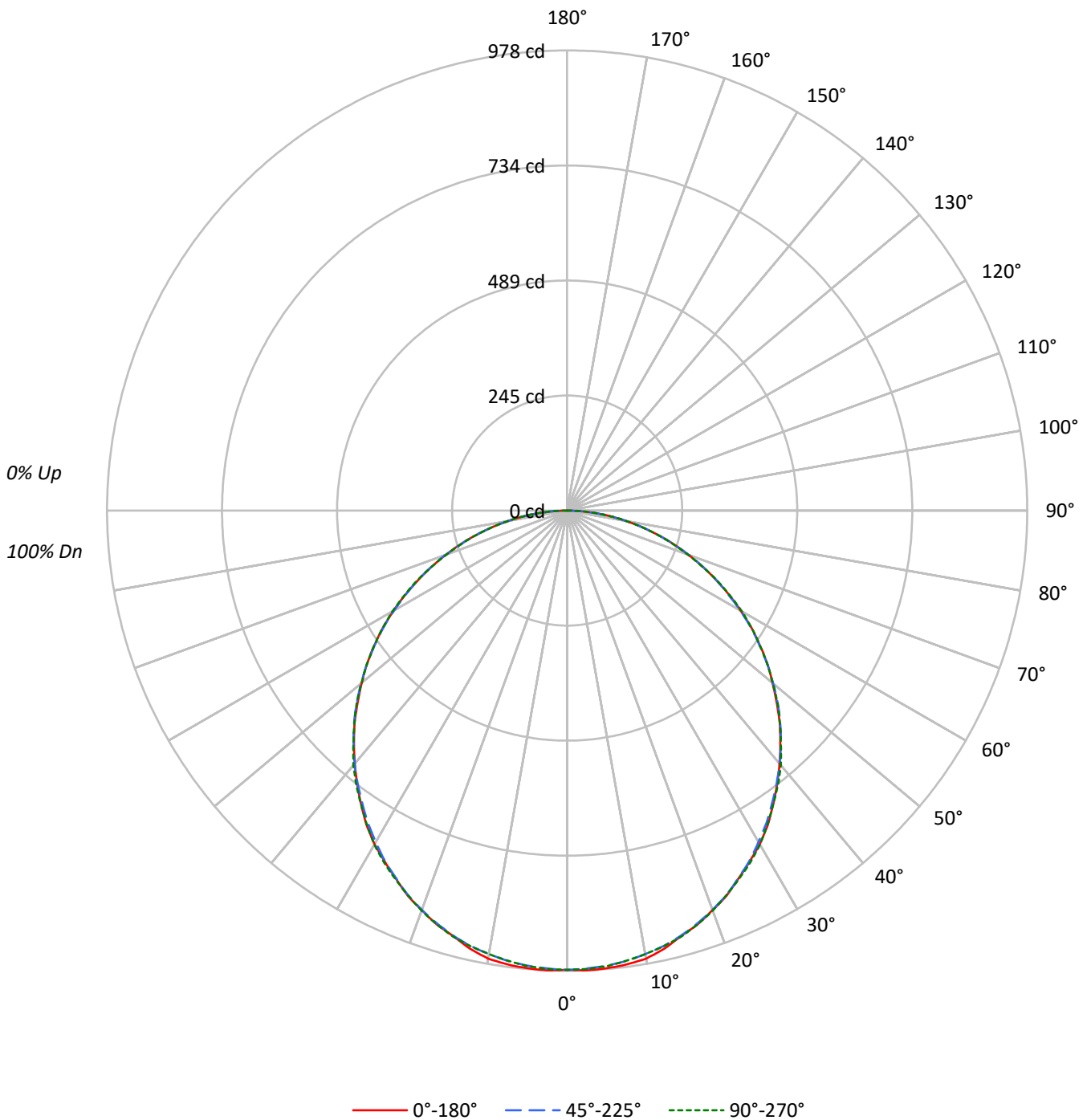
Input Watts (W): 22.971  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1313	1313	1313
5°	1318	1311	1312
10°	1321	1308	1308
15°	1304	1303	1306
20°	1294	1293	1296
25°	1280	1279	1283
30°	1272	1264	1273
35°	1254	1248	1254
40°	1233	1234	1241
45°	1216	1220	1217
50°	1193	1197	1194
55°	1174	1171	1174
60°	1147	1143	1154
65°	1111	1116	1120
70°	1076	1081	1073
75°	1038	1038	1038
80°	980	980	990
85°	905	915	885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	3.3
10°-20°	263.9	9.4
20°-30°	397.6	14.2
30°-40°	476.3	17.1
40°-50°	493.0	17.7
50°-60°	447.0	16.0
60°-70°	346.6	12.4
70°-80°	210.8	7.5
80°-90°	65.6	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°	753.8	27.0
0°-40°	1230.1	44.0
0°-60°	2170.1	77.7
0°-90°	2793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	976	970	971	970	972	93
15°	936	937	935	932	937	265
25°	862	862	862	864	864	398
35°	763	758	760	763	763	478
45°	639	640	641	638	640	492
55°	501	498	499	501	501	447
65°	349	351	350	349	352	346
75°	200	199	200	199	200	211
85°	59	58	59	59	57	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	976.2	976.2	976.2	976.2	976.2
2.5°	978.2	974.2	974.2	972.9	974.9
5°	976.2	970.3	970.9	969.6	971.6
7.5°	972.9	965.0	965.6	964.3	965.0
10°	967.0	957.7	957.1	956.4	957.1
12.5°	953.8	948.5	947.9	946.5	948.5
15°	936.0	936.7	935.3	932.1	937.3
17.5°	922.2	921.5	920.2	916.9	922.2
20°	903.7	904.4	903.1	901.8	905.0
22.5°	885.9	884.0	884.6	884.0	884.6
25°	862.2	862.2	861.6	864.2	864.2
27.5°	840.5	837.9	839.2	841.8	843.1
30°	818.8	812.2	813.5	816.1	819.4
32.5°	793.1	786.5	787.8	790.4	791.8
35°	763.4	758.2	759.5	762.8	763.4
37.5°	733.1	729.8	731.2	733.8	735.8
40°	702.2	700.9	702.8	702.2	706.8
42.5°	670.6	669.9	671.9	671.9	672.5
45°	638.9	640.3	640.9	638.3	639.6
47.5°	604.0	604.7	607.3	606.0	606.7
50°	569.8	569.1	571.7	572.4	570.4
52.5°	536.8	533.5	536.2	537.5	536.2
55°	500.6	498.0	499.3	501.3	500.6
57.5°	465.0	462.4	463.1	466.4	465.0
60°	426.2	425.5	424.9	427.5	428.8
62.5°	388.0	387.3	386.0	388.6	389.9
65°	349.1	351.1	350.4	349.1	351.7
67.5°	312.2	314.2	312.2	310.9	310.9
70°	273.4	275.3	274.7	273.4	272.7
72.5°	237.1	237.1	235.8	235.2	235.8
75°	199.6	198.9	199.6	198.9	199.6
77.5°	162.7	163.4	163.4	163.4	162.7
80°	126.5	126.5	126.5	127.1	127.8
82.5°	92.9	90.9	92.9	91.6	92.2
85°	58.6	58.0	59.3	58.6	57.3
87.5°	26.3	27.0	27.0	27.7	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)