

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: P294383

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294383  
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-LD5-48-FGW080-UNV-L92765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3986.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

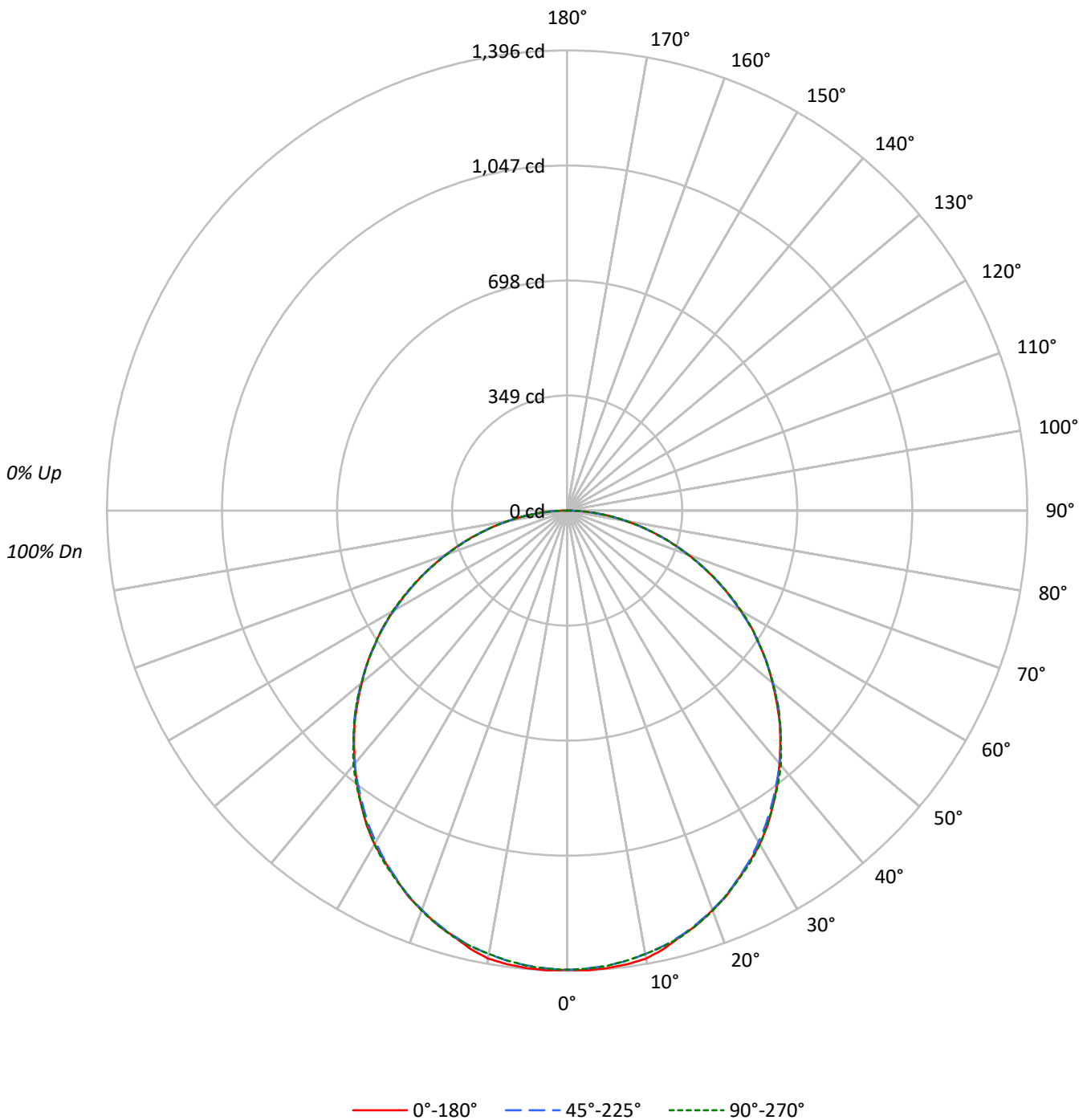
Input Watts (W): 33.852  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1875	1875	1875
5°	1882	1871	1873
10°	1885	1866	1866
15°	1861	1859	1863
20°	1847	1845	1849
25°	1827	1825	1831
30°	1815	1804	1817
35°	1790	1780	1790
40°	1760	1762	1772
45°	1735	1740	1737
50°	1702	1708	1704
55°	1676	1672	1676
60°	1637	1632	1647
65°	1586	1592	1598
70°	1535	1542	1531
75°	1481	1481	1481
80°	1399	1399	1413
85°	1292	1306	1263



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	3.3
10°-20°	376.6	9.4
20°-30°	567.5	14.2
30°-40°	679.7	17.1
40°-50°	703.6	17.7
50°-60°	638.0	16.0
60°-70°	494.6	12.4
70°-80°	300.8	7.5
80°-90°	93.6	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°	1075.8	27.0
0°-40°	1755.5	44.0
0°-60°	3097.1	77.7
0°-90°	3986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3986.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1393	1385	1386	1384	1387	133
15°	1336	1337	1335	1330	1338	378
25°	1230	1230	1230	1233	1233	568
35°	1090	1082	1084	1089	1090	682
45°	912	914	915	911	913	702
55°	714	711	713	715	714	639
65°	498	501	500	498	502	494
75°	285	284	285	284	285	301
85°	84	83	85	84	82	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1393.2	1393.2	1393.2	1393.2	1393.2
2.5°	1396.0	1390.3	1390.3	1388.5	1391.3
5°	1393.2	1384.7	1385.6	1383.8	1386.6
7.5°	1388.5	1377.2	1378.1	1376.2	1377.2
10°	1380.0	1366.8	1365.9	1365.0	1365.9
12.5°	1361.2	1353.7	1352.7	1350.9	1353.7
15°	1335.8	1336.7	1334.9	1330.2	1337.7
17.5°	1316.1	1315.1	1313.2	1308.5	1316.1
20°	1289.7	1290.7	1288.8	1286.9	1291.6
22.5°	1264.4	1261.5	1262.5	1261.5	1262.5
25°	1230.5	1230.5	1229.6	1233.3	1233.3
27.5°	1199.5	1195.7	1197.6	1201.4	1203.3
30°	1168.5	1159.1	1161.0	1164.7	1169.4
32.5°	1131.8	1122.4	1124.3	1128.1	1129.9
35°	1089.5	1082.0	1083.9	1088.6	1089.5
37.5°	1046.3	1041.6	1043.5	1047.2	1050.0
40°	1002.1	1000.2	1003.0	1002.1	1008.7
42.5°	957.0	956.0	958.9	958.9	959.8
45°	911.8	913.7	914.7	910.9	912.8
47.5°	862.0	863.0	866.7	864.8	865.8
50°	813.1	812.2	816.0	816.9	814.1
52.5°	766.1	761.4	765.2	767.1	765.2
55°	714.4	710.7	712.6	715.4	714.4
57.5°	663.7	659.9	660.9	665.6	663.7
60°	608.2	607.3	606.3	610.1	612.0
62.5°	553.7	552.7	550.9	554.6	556.5
65°	498.2	501.0	500.1	498.2	502.0
67.5°	445.6	448.4	445.6	443.7	443.7
70°	390.1	392.9	392.0	390.1	389.2
72.5°	338.4	338.4	336.5	335.6	336.5
75°	284.8	283.9	284.8	283.9	284.8
77.5°	232.2	233.1	233.1	233.1	232.2
80°	180.5	180.5	180.5	181.4	182.4
82.5°	132.5	129.7	132.5	130.7	131.6
85°	83.7	82.7	84.6	83.7	81.8
87.5°	37.6	38.5	38.5	39.5	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)