

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: P294385

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294385  
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-LD5-56-FGW080-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3850.0 lumens  
Efficiency: N/A  
Efficacy: 99.0 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

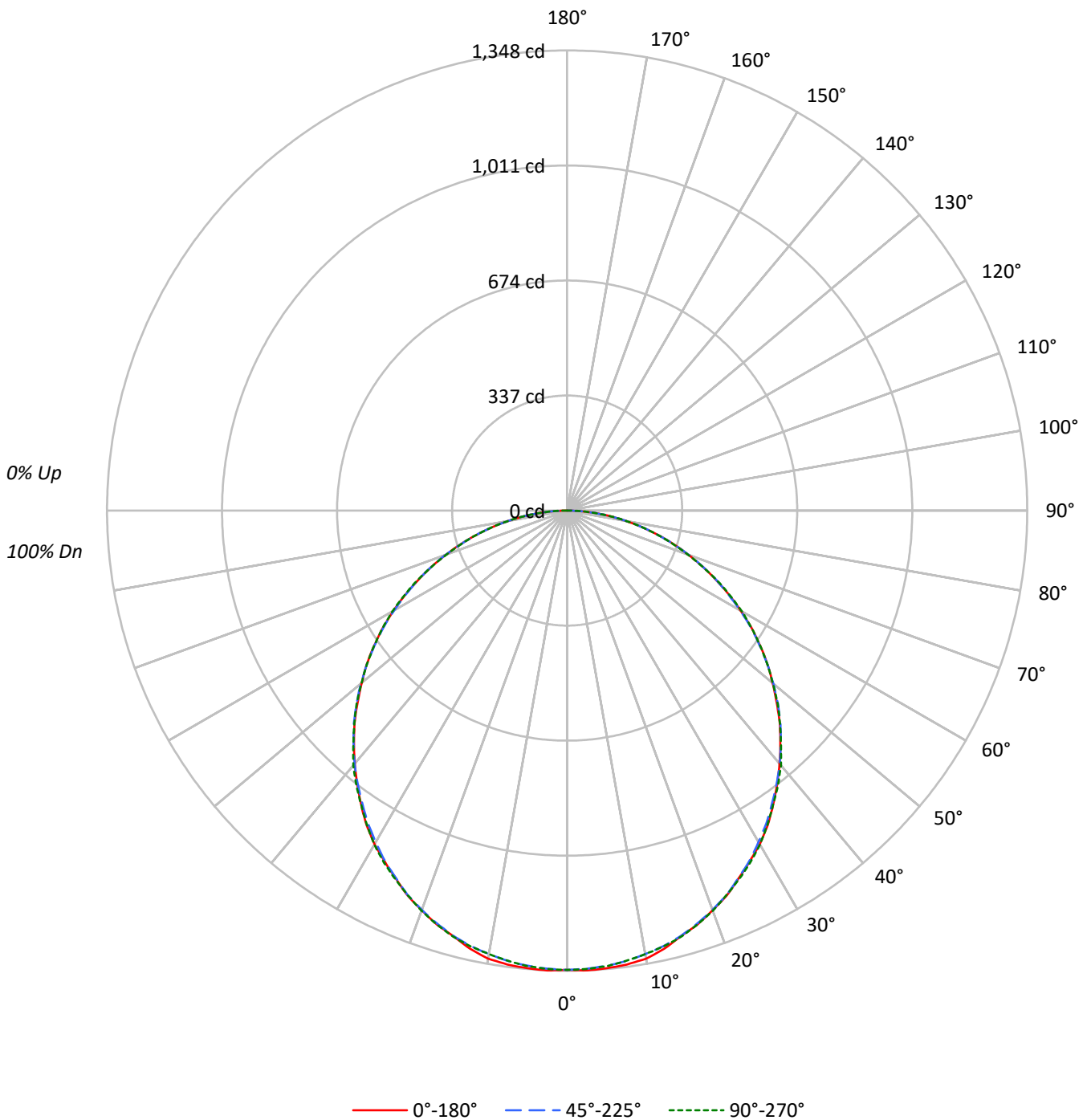
Input Watts (W): 38.874  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1810	1810	1810
5°	1817	1808	1809
10°	1821	1802	1802
15°	1797	1796	1800
20°	1784	1782	1786
25°	1764	1763	1769
30°	1753	1742	1755
35°	1728	1720	1728
40°	1700	1702	1711
45°	1676	1681	1678
50°	1644	1650	1646
55°	1619	1614	1619
60°	1581	1576	1591
65°	1532	1538	1544
70°	1482	1489	1479
75°	1430	1430	1430
80°	1351	1351	1364
85°	1247	1261	1220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.2	3.3
10°-20°	363.7	9.4
20°-30°	548.1	14.2
30°-40°	656.5	17.1
40°-50°	679.6	17.7
50°-60°	616.2	16.0
60°-70°	477.7	12.4
70°-80°	290.5	7.5
80°-90°	90.4	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°	1039.1	27.0
0°-40°	1695.6	44.0
0°-60°	2991.4	77.7
0°-90°	3850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1346	1337	1338	1336	1339	128
15°	1290	1291	1289	1285	1292	365
25°	1188	1188	1188	1191	1191	549
35°	1052	1045	1047	1051	1052	658
45°	881	883	884	880	882	678
55°	690	686	688	691	690	617
65°	481	484	483	481	485	477
75°	275	274	275	274	275	291
85°	81	80	82	81	79	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1345.6	1345.6	1345.6	1345.6	1345.6
2.5°	1348.3	1342.9	1342.9	1341.1	1343.8
5°	1345.6	1337.4	1338.4	1336.5	1339.3
7.5°	1341.1	1330.2	1331.1	1329.3	1330.2
10°	1332.9	1320.2	1319.3	1318.4	1319.3
12.5°	1314.7	1307.5	1306.6	1304.8	1307.5
15°	1290.2	1291.1	1289.3	1284.8	1292.0
17.5°	1271.2	1270.3	1268.4	1263.9	1271.2
20°	1245.7	1246.6	1244.8	1243.0	1247.6
22.5°	1221.2	1218.5	1219.4	1218.5	1219.4
25°	1188.5	1188.5	1187.6	1191.3	1191.3
27.5°	1158.6	1154.9	1156.8	1160.4	1162.2
30°	1128.6	1119.5	1121.3	1125.0	1129.5
32.5°	1093.2	1084.1	1085.9	1089.6	1091.4
35°	1052.3	1045.1	1046.9	1051.4	1052.3
37.5°	1010.6	1006.0	1007.9	1011.5	1014.2
40°	967.9	966.1	968.8	967.9	974.3
42.5°	924.3	923.4	926.1	926.1	927.0
45°	880.7	882.6	883.5	879.8	881.6
47.5°	832.6	833.5	837.2	835.3	836.2
50°	785.4	784.5	788.1	789.0	786.3
52.5°	740.0	735.5	739.1	740.9	739.1
55°	690.1	686.4	688.2	691.0	690.1
57.5°	641.0	637.4	638.3	642.8	641.0
60°	587.5	586.6	585.6	589.3	591.1
62.5°	534.8	533.9	532.1	535.7	537.5
65°	481.2	484.0	483.0	481.2	484.9
67.5°	430.4	433.1	430.4	428.6	428.6
70°	376.8	379.5	378.6	376.8	375.9
72.5°	326.9	326.9	325.1	324.1	325.1
75°	275.1	274.2	275.1	274.2	275.1
77.5°	224.3	225.2	225.2	225.2	224.3
80°	174.3	174.3	174.3	175.2	176.1
82.5°	128.0	125.3	128.0	126.2	127.1
85°	80.8	79.9	81.7	80.8	79.0
87.5°	36.3	37.2	37.2	38.1	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)