

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: P294379

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294379  
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-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3734.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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

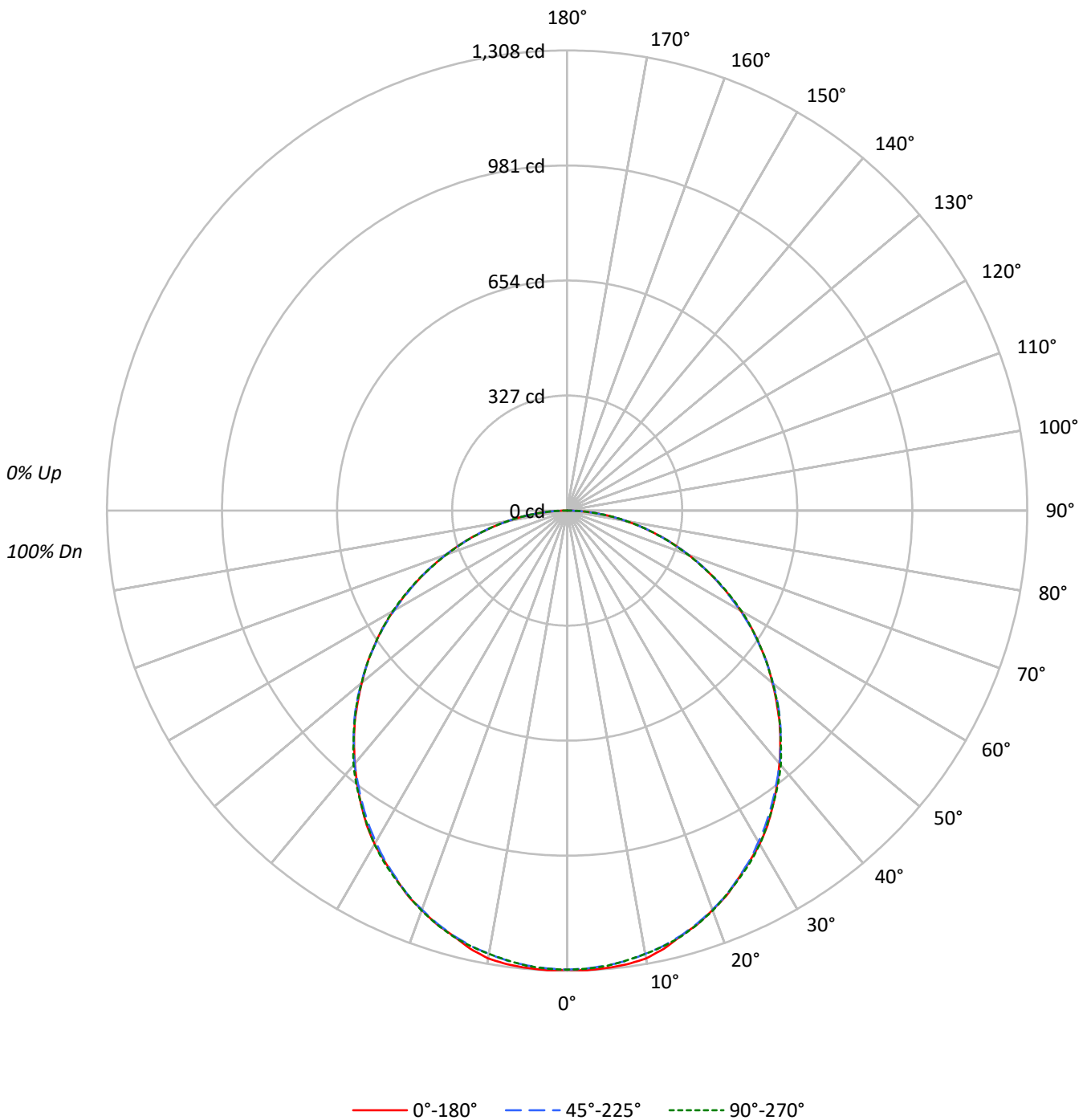
Input Watts (W): 33.201  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1756	1756	1756
5°	1763	1753	1754
10°	1766	1748	1748
15°	1743	1742	1746
20°	1730	1729	1733
25°	1711	1710	1715
30°	1701	1690	1702
35°	1676	1668	1676
40°	1649	1650	1660
45°	1625	1630	1627
50°	1594	1600	1596
55°	1570	1566	1570
60°	1533	1528	1543
65°	1486	1492	1497
70°	1438	1445	1434
75°	1387	1387	1387
80°	1310	1310	1323
85°	1210	1224	1183



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.4	3.3
10°-20°	352.8	9.4
20°-30°	531.6	14.2
30°-40°	636.7	17.1
40°-50°	659.1	17.7
50°-60°	597.6	16.0
60°-70°	463.3	12.4
70°-80°	281.8	7.5
80°-90°	87.7	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°	1007.8	27.0
0°-40°	1644.5	44.0
0°-60°	2901.2	77.7
0°-90°	3734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1305	1297	1298	1296	1299	124
15°	1251	1252	1250	1246	1253	354
25°	1153	1153	1152	1155	1155	532
35°	1021	1014	1015	1020	1021	638
45°	854	856	857	853	855	658
55°	669	666	668	670	669	598
65°	467	469	468	467	470	463
75°	267	266	267	266	267	282
85°	78	78	79	78	77	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1307.7	1302.4	1302.4	1300.7	1303.3
5°	1305.1	1297.2	1298.0	1296.3	1298.9
7.5°	1300.7	1290.1	1291.0	1289.2	1290.1
10°	1292.7	1280.4	1279.5	1278.7	1279.5
12.5°	1275.1	1268.1	1267.2	1265.4	1268.1
15°	1251.4	1252.2	1250.5	1246.1	1253.1
17.5°	1232.9	1232.0	1230.2	1225.8	1232.9
20°	1208.2	1209.1	1207.3	1205.6	1210.0
22.5°	1184.4	1181.8	1182.7	1181.8	1182.7
25°	1152.7	1152.7	1151.8	1155.4	1155.4
27.5°	1123.7	1120.1	1121.9	1125.4	1127.2
30°	1094.6	1085.8	1087.6	1091.1	1095.5
32.5°	1060.3	1051.5	1053.2	1056.7	1058.5
35°	1020.6	1013.6	1015.4	1019.8	1020.6
37.5°	980.1	975.7	977.5	981.0	983.7
40°	938.7	937.0	939.6	938.7	944.9
42.5°	896.5	895.6	898.2	898.2	899.1
45°	854.2	856.0	856.8	853.3	855.1
47.5°	807.5	808.4	811.9	810.2	811.0
50°	761.7	760.9	764.4	765.3	762.6
52.5°	717.7	713.3	716.8	718.6	716.8
55°	669.3	665.7	667.5	670.2	669.3
57.5°	621.7	618.2	619.1	623.5	621.7
60°	569.8	568.9	568.0	571.5	573.3
62.5°	518.7	517.8	516.0	519.6	521.3
65°	466.7	469.4	468.5	466.7	470.3
67.5°	417.4	420.1	417.4	415.7	415.7
70°	365.5	368.1	367.2	365.5	364.6
72.5°	317.0	317.0	315.3	314.4	315.3
75°	266.8	265.9	266.8	265.9	266.8
77.5°	217.5	218.4	218.4	218.4	217.5
80°	169.1	169.1	169.1	170.0	170.8
82.5°	124.2	121.5	124.2	122.4	123.3
85°	78.4	77.5	79.3	78.4	76.6
87.5°	35.2	36.1	36.1	37.0	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)