

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: P292975

Luminaire Tested: **24GR-LD5-38-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-38-F1-UNV-L82765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F1 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3841.0 lumens  
Efficiency: N/A  
Efficacy: 149.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

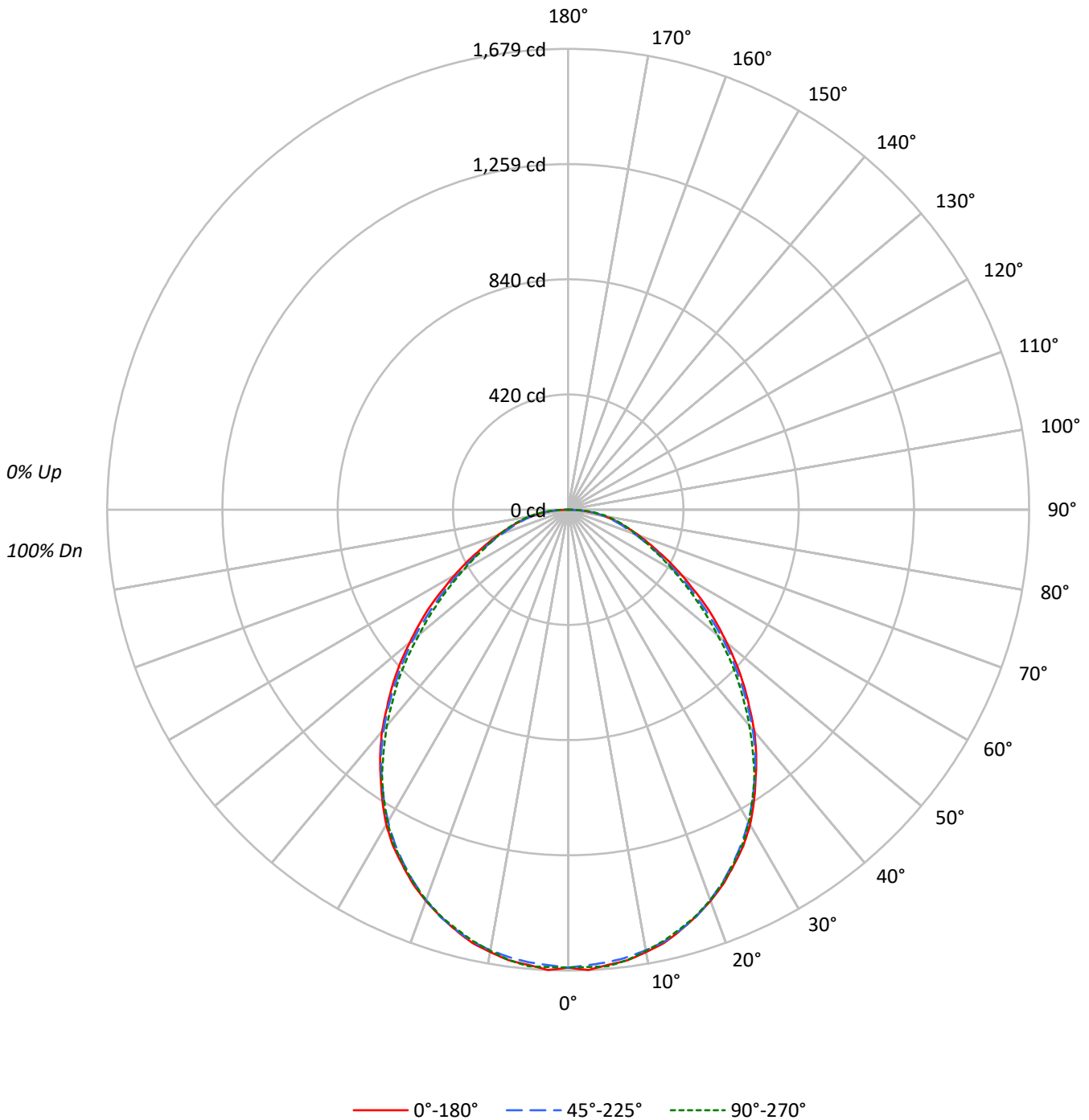
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2245	2245	2245
5°	2248	2235	2254
10°	2236	2226	2229
15°	2208	2206	2200
20°	2171	2167	2167
25°	2121	2109	2113
30°	2059	2038	2044
35°	1956	1947	1941
40°	1852	1835	1803
45°	1721	1691	1658
50°	1577	1542	1484
55°	1440	1375	1329
60°	1283	1221	1190
65°	1155	1095	1080
70°	1072	1007	1047
75°	1026	980	1063
80°	1025	1025	1136
85°	1064	1076	1198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.6	4.1
10°-20°	445.9	11.6
20°-30°	654.4	17.0
30°-40°	739.9	19.3
40°-50°	683.8	17.8
50°-60°	526.8	13.7
60°-70°	348.9	9.1
70°-80°	207.7	5.4
80°-90°	76.1	2.0
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°	1257.9	32.7
0°-40°	1997.8	52.0
0°-60°	3208.4	83.5
0°-90°	3841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1664	1664	1655	1656	1669	158
15°	1585	1582	1584	1583	1580	447
25°	1428	1424	1420	1419	1424	658
35°	1191	1189	1185	1180	1182	745
45°	905	898	889	873	872	697
55°	614	601	586	570	566	548
65°	363	357	344	341	339	364
75°	197	192	189	197	204	210
85°	69	65	70	77	78	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1678.7	1670.0	1660.5	1660.5	1667.6
5°	1664.5	1664.5	1655.0	1655.8	1669.2
7.5°	1655.8	1651.0	1644.7	1644.7	1655.0
10°	1636.8	1632.8	1629.6	1628.0	1631.2
12.5°	1616.2	1609.8	1612.2	1609.8	1609.0
15°	1585.3	1582.1	1583.7	1582.9	1579.7
17.5°	1552.0	1550.4	1553.6	1548.0	1550.4
20°	1516.3	1511.6	1513.2	1510.0	1513.2
22.5°	1475.9	1472.8	1468.8	1464.8	1471.2
25°	1428.4	1424.4	1420.5	1418.9	1423.6
27.5°	1380.9	1374.5	1369.0	1367.4	1374.5
30°	1325.4	1318.3	1311.9	1310.4	1315.9
32.5°	1259.6	1258.1	1250.1	1247.0	1249.3
35°	1190.7	1189.1	1185.2	1179.6	1182.0
37.5°	1125.0	1124.2	1118.6	1109.1	1102.8
40°	1054.5	1048.9	1045.0	1031.5	1026.7
42.5°	976.8	975.2	968.1	953.1	947.5
45°	904.7	898.4	888.9	873.0	871.5
47.5°	830.3	821.5	812.8	793.0	792.2
50°	753.4	747.1	736.8	717.0	709.0
52.5°	682.1	673.4	659.1	640.1	636.2
55°	614.0	601.3	586.3	570.4	566.4
57.5°	541.1	535.5	517.3	504.7	499.9
60°	476.9	472.2	453.9	442.1	442.1
62.5°	419.1	412.0	396.1	388.2	388.2
65°	362.8	357.3	343.8	340.7	339.1
67.5°	314.5	307.4	297.9	297.1	301.0
70°	272.5	263.8	255.9	263.8	266.2
72.5°	232.9	227.4	220.2	230.5	235.3
75°	197.3	192.5	188.6	197.3	204.4
77.5°	164.8	160.0	160.0	169.5	175.9
80°	132.3	129.1	132.3	140.2	146.6
82.5°	101.4	99.0	103.0	110.9	114.9
85°	68.9	65.0	69.7	76.8	77.6
87.5°	32.5	31.7	34.9	39.6	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)