

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: P293364

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-F125-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3875.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

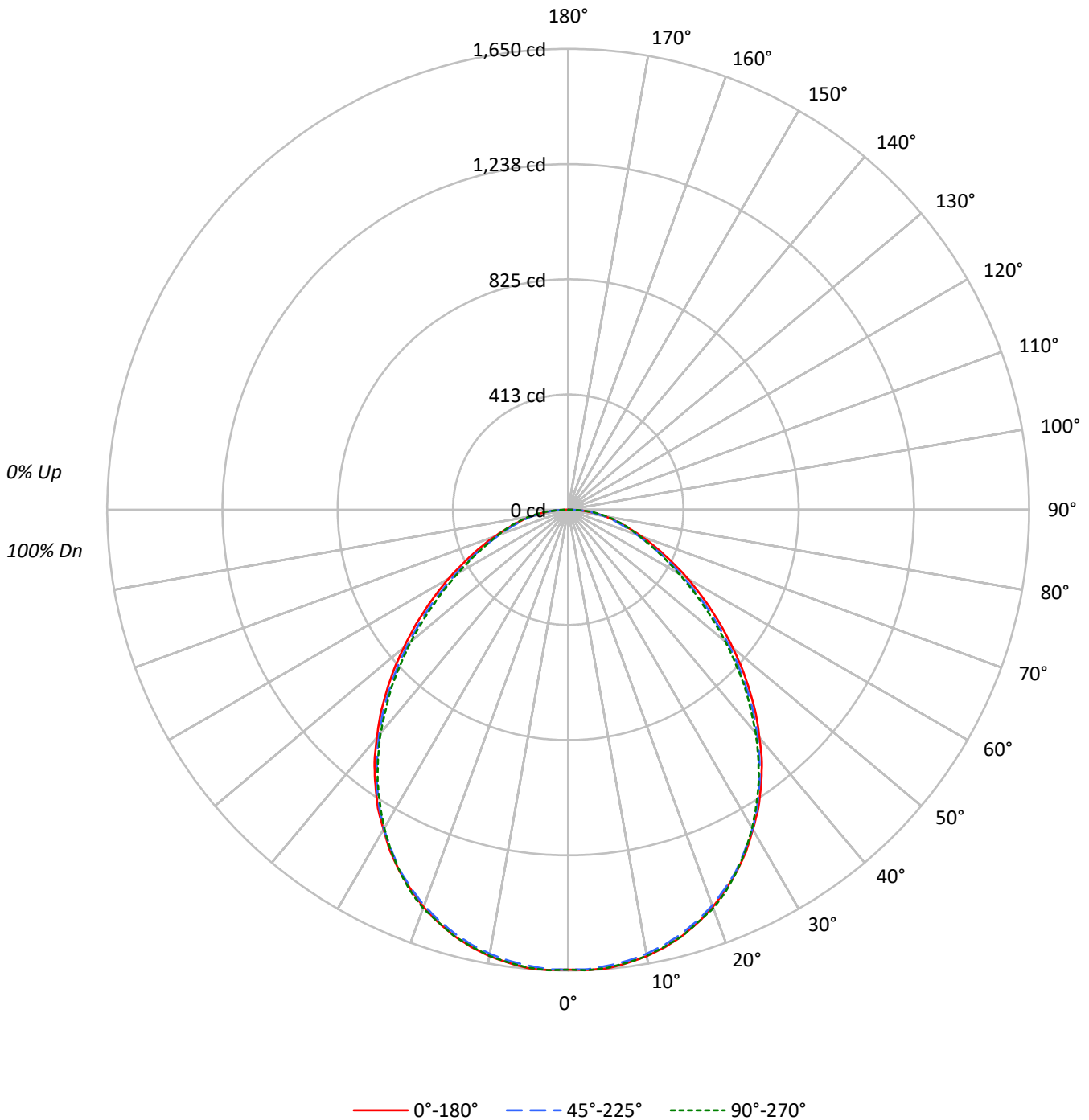
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

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

	0°	45°	90°
0°	2216	2216	2216
5°	2226	2214	2223
10°	2217	2206	2216
15°	2199	2188	2201
20°	2167	2159	2174
25°	2120	2115	2119
30°	2053	2050	2045
35°	1976	1961	1953
40°	1870	1849	1834
45°	1749	1717	1697
50°	1608	1564	1538
55°	1466	1412	1371
60°	1331	1260	1227
65°	1199	1132	1113
70°	1098	1027	1055
75°	1027	979	1052
80°	1018	1000	1098
85°	1037	1047	1196



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	4.0
10°-20°	443.1	11.4
20°-30°	654.6	16.9
30°-40°	744.2	19.2
40°-50°	695.0	17.9
50°-60°	540.5	13.9
60°-70°	358.6	9.3
70°-80°	207.5	5.4
80°-90°	75.4	1.9
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°	1253.6	32.4
0°-40°	1997.8	51.6
0°-60°	3233.4	83.4
0°-90°	3875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1648	1640	1639	1642	1646	156
15°	1579	1571	1571	1570	1580	445
25°	1428	1422	1425	1422	1428	657
35°	1203	1197	1194	1185	1189	751
45°	919	912	902	891	892	708
55°	625	616	602	586	584	561
65°	377	365	356	349	350	377
75°	198	193	188	197	202	211
85°	67	66	68	77	78	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1646.9	1646.9	1646.9	1646.9	1646.9
2.5°	1649.3	1644.5	1646.9	1645.1	1650.5
5°	1648.1	1639.6	1639.0	1642.0	1645.7
7.5°	1636.6	1627.5	1629.3	1629.3	1635.4
10°	1622.6	1613.6	1614.8	1615.4	1622.0
12.5°	1603.9	1594.8	1595.4	1594.8	1601.4
15°	1579.0	1571.2	1570.6	1570.0	1580.2
17.5°	1548.8	1537.9	1541.5	1542.1	1547.5
20°	1513.6	1505.1	1507.6	1507.0	1518.5
22.5°	1471.8	1465.8	1467.6	1466.4	1477.3
25°	1428.2	1422.2	1424.6	1421.6	1427.6
27.5°	1379.2	1374.9	1372.5	1370.7	1374.9
30°	1321.6	1319.2	1319.2	1311.3	1316.2
32.5°	1267.1	1259.2	1259.2	1256.2	1253.2
35°	1202.9	1196.8	1193.8	1185.3	1189.0
37.5°	1138.7	1124.8	1123.6	1116.9	1116.9
40°	1064.8	1056.9	1052.7	1045.4	1044.2
42.5°	994.5	986.7	979.4	967.3	964.9
45°	919.4	912.2	902.5	891.0	891.6
47.5°	844.9	834.6	825.6	811.6	809.8
50°	768.0	760.7	747.4	735.3	734.7
52.5°	695.9	684.4	672.3	657.8	657.8
55°	625.1	616.0	602.1	586.3	584.5
57.5°	557.2	548.8	533.0	521.5	518.5
60°	494.8	482.7	468.2	458.5	456.1
62.5°	432.5	421.6	410.7	401.0	400.4
65°	376.7	365.2	355.5	348.9	349.5
67.5°	326.5	316.8	305.9	304.1	304.7
70°	279.2	268.9	261.1	265.3	268.3
72.5°	234.4	229.0	223.5	229.6	233.8
75°	197.5	192.6	188.4	196.8	202.3
77.5°	163.5	159.9	159.3	166.6	171.4
80°	131.4	127.2	129.0	137.5	141.7
82.5°	99.9	96.9	97.5	107.8	110.8
85°	67.2	66.0	67.8	76.9	77.5
87.5°	35.7	35.7	36.9	42.4	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)