

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: P293365

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293365  
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-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3935.0 lumens  
Efficiency: N/A  
Efficacy: 136.9 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

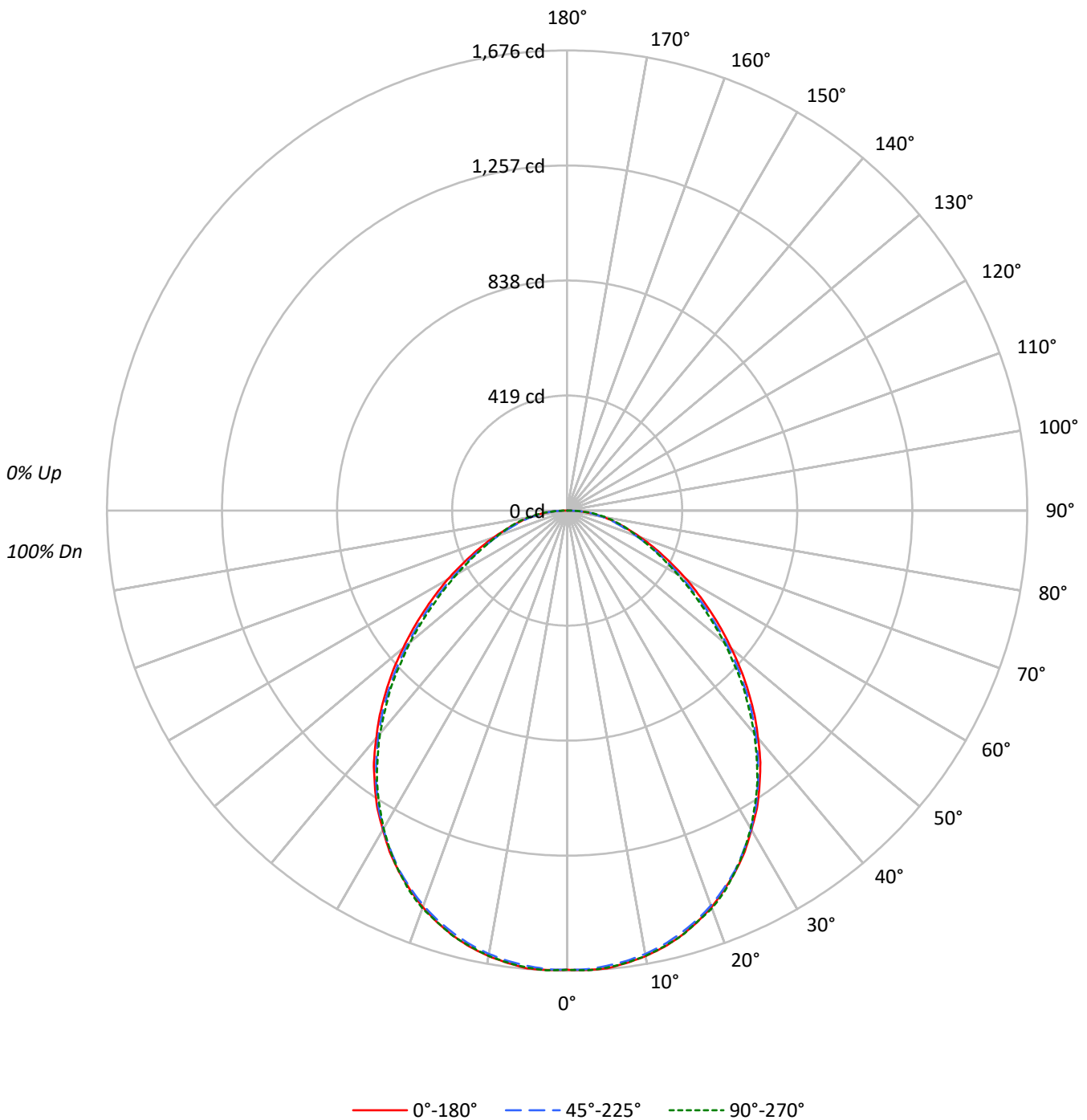
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2250	2250	2250
5°	2260	2248	2257
10°	2251	2240	2250
15°	2234	2222	2235
20°	2201	2192	2208
25°	2153	2148	2152
30°	2085	2081	2076
35°	2006	1991	1983
40°	1899	1878	1862
45°	1777	1744	1723
50°	1632	1589	1562
55°	1489	1434	1392
60°	1352	1279	1246
65°	1218	1149	1130
70°	1115	1043	1072
75°	1042	994	1068
80°	1034	1015	1115
85°	1054	1064	1215



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.3	4.0
10°-20°	450.0	11.4
20°-30°	664.8	16.9
30°-40°	755.8	19.2
40°-50°	705.8	17.9
50°-60°	548.9	13.9
60°-70°	364.2	9.3
70°-80°	210.8	5.4
80°-90°	76.6	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°	1273.0	32.4
0°-40°	2028.8	51.6
0°-60°	3283.4	83.4
0°-90°	3935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3935.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1674	1665	1664	1668	1671	159
15°	1604	1596	1595	1594	1605	452
25°	1450	1444	1447	1444	1450	667
35°	1222	1215	1212	1204	1207	763
45°	934	926	916	905	905	719
55°	635	626	611	595	594	569
65°	383	371	361	354	355	382
75°	200	196	191	200	205	214
85°	68	67	69	78	79	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1672.4	1672.4	1672.4	1672.4	1672.4
2.5°	1674.8	1669.9	1672.4	1670.5	1676.1
5°	1673.6	1665.0	1664.4	1667.5	1671.1
7.5°	1661.9	1652.7	1654.5	1654.5	1660.7
10°	1647.8	1638.5	1639.8	1640.4	1647.2
12.5°	1628.7	1619.5	1620.1	1619.5	1626.2
15°	1603.5	1595.5	1594.9	1594.3	1604.7
17.5°	1572.7	1561.7	1565.4	1566.0	1571.5
20°	1537.1	1528.4	1530.9	1530.3	1542.0
22.5°	1494.6	1488.5	1490.3	1489.1	1500.2
25°	1450.3	1444.2	1446.6	1443.6	1449.7
27.5°	1400.5	1396.2	1393.7	1391.9	1396.2
30°	1342.1	1339.6	1339.6	1331.6	1336.5
32.5°	1286.7	1278.7	1278.7	1275.7	1272.6
35°	1221.5	1215.4	1212.3	1203.7	1207.4
37.5°	1156.3	1142.2	1141.0	1134.2	1134.2
40°	1081.3	1073.3	1069.0	1061.6	1060.4
42.5°	1009.9	1001.9	994.6	982.3	979.8
45°	933.7	926.3	916.5	904.8	905.4
47.5°	858.0	847.6	838.3	824.2	822.3
50°	779.9	772.5	759.0	746.7	746.1
52.5°	706.7	695.0	682.7	668.0	668.0
55°	634.8	625.5	611.4	595.4	593.5
57.5°	565.9	557.3	541.3	529.6	526.5
60°	502.5	490.2	475.4	465.6	463.1
62.5°	439.2	428.1	417.0	407.2	406.6
65°	382.6	370.9	361.0	354.3	354.9
67.5°	331.5	321.7	310.6	308.8	309.4
70°	283.5	273.1	265.1	269.4	272.5
72.5°	238.0	232.5	227.0	233.1	237.4
75°	200.5	195.6	191.3	199.9	205.4
77.5°	166.1	162.4	161.8	169.1	174.1
80°	133.5	129.2	131.0	139.6	143.9
82.5°	101.5	98.4	99.0	109.5	112.6
85°	68.3	67.0	68.9	78.1	78.7
87.5°	36.3	36.3	37.5	43.1	41.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)