

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: P293366

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293366  
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-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3952.0 lumens  
Efficiency: N/A  
Efficacy: 137.1 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

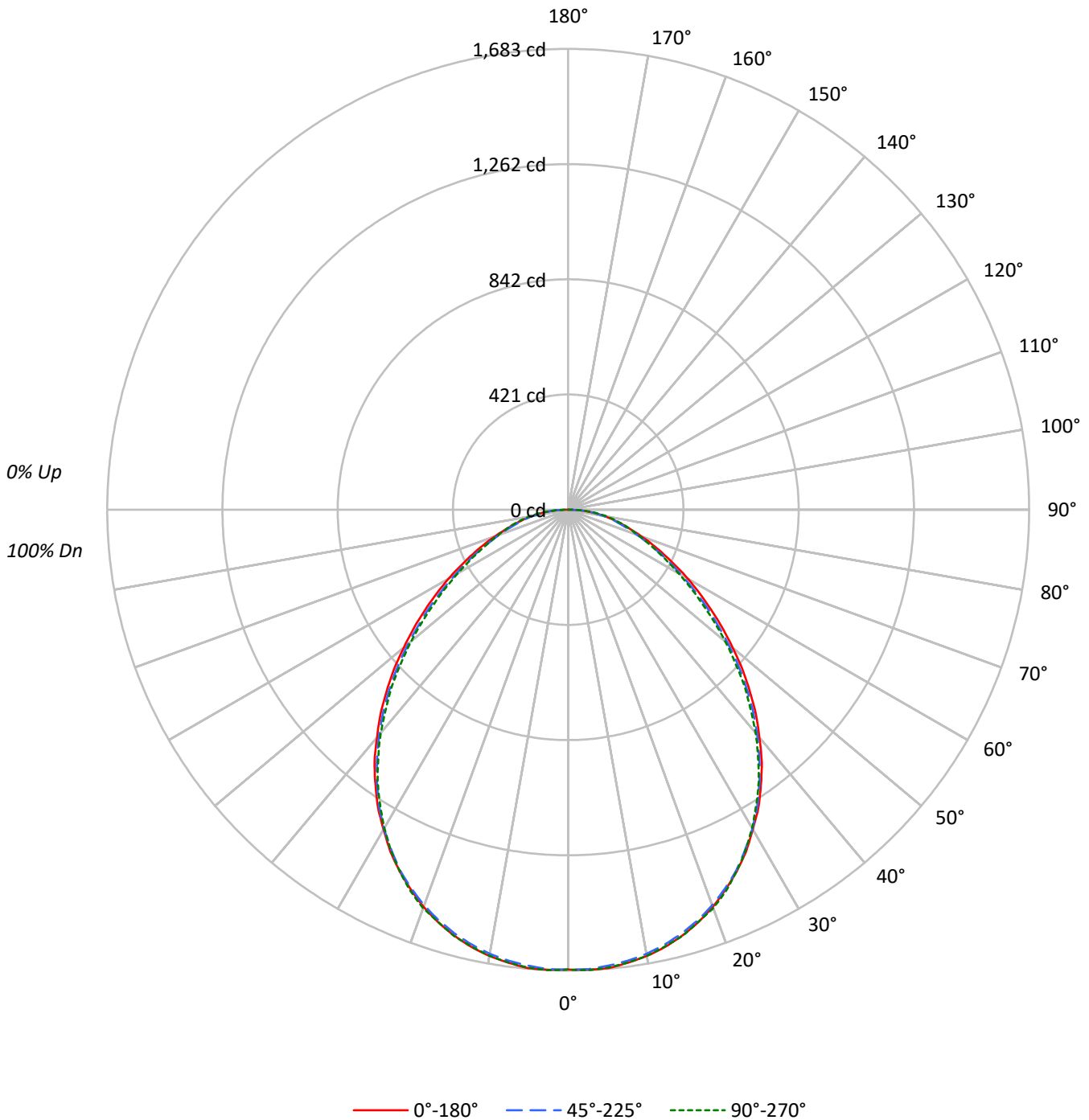
Input Watts (W): 28.83  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293366

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L92765-W2A1-U-5700K

### Luminous Intensity Polar Plot





TEST NUMBER: P293366

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L92765-W2A1-U-5700K

**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	72	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°	2260	2260	2260
5°	2270	2258	2267
10°	2261	2250	2260
15°	2243	2231	2245
20°	2210	2201	2217
25°	2162	2157	2162
30°	2094	2090	2085
35°	2015	2000	1992
40°	1907	1886	1871
45°	1784	1751	1730
50°	1640	1596	1568
55°	1495	1440	1398
60°	1358	1285	1252
65°	1223	1154	1135
70°	1120	1047	1077
75°	1047	999	1072
80°	1038	1020	1120
85°	1059	1068	1221



TEST NUMBER: P293366

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L92765-W2A1-U-5700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.0	4.0
10°-20°	451.9	11.4
20°-30°	667.6	16.9
30°-40°	759.0	19.2
40°-50°	708.8	17.9
50°-60°	551.2	13.9
60°-70°	365.8	9.3
70°-80°	211.7	5.4
80°-90°	77.0	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°	1278.5	32.4
0°-40°	2037.5	51.6
0°-60°	3297.6	83.4
0°-90°	3952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1681	1672	1672	1675	1678	159
15°	1610	1602	1602	1601	1612	454
25°	1457	1450	1453	1450	1456	670
35°	1227	1221	1218	1209	1213	766
45°	938	930	920	909	909	723
55°	638	628	614	598	596	572
65°	384	372	363	356	356	384
75°	201	196	192	201	206	215
85°	69	67	69	78	79	75
90°	0	0	0	0	0	



TEST NUMBER: P293366

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L92765-W2A1-U-5700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1679.6	1679.6	1679.6	1679.6	1679.6
2.5°	1682.1	1677.1	1679.6	1677.7	1683.3
5°	1680.8	1672.2	1671.6	1674.7	1678.4
7.5°	1669.1	1659.8	1661.7	1661.7	1667.9
10°	1654.9	1645.6	1646.9	1647.5	1654.3
12.5°	1635.7	1626.5	1627.1	1626.5	1633.3
15°	1610.4	1602.4	1601.8	1601.1	1611.6
17.5°	1579.5	1568.4	1572.1	1572.7	1578.3
20°	1543.7	1535.1	1537.5	1536.9	1548.6
22.5°	1501.1	1494.9	1496.8	1495.5	1506.6
25°	1456.6	1450.4	1452.9	1449.8	1456.0
27.5°	1406.6	1402.2	1399.8	1397.9	1402.2
30°	1347.9	1345.4	1345.4	1337.4	1342.3
32.5°	1292.3	1284.3	1284.3	1281.2	1278.1
35°	1226.8	1220.6	1217.5	1208.9	1212.6
37.5°	1161.3	1147.1	1145.9	1139.1	1139.1
40°	1086.0	1077.9	1073.6	1066.2	1065.0
42.5°	1014.3	1006.3	998.9	986.5	984.0
45°	937.7	930.3	920.4	908.7	909.3
47.5°	861.7	851.2	842.0	827.8	825.9
50°	783.3	775.9	762.3	749.9	749.3
52.5°	709.8	698.0	685.7	670.9	670.9
55°	637.5	628.2	614.0	598.0	596.1
57.5°	568.3	559.7	543.6	531.9	528.8
60°	504.7	492.3	477.5	467.6	465.1
62.5°	441.1	429.9	418.8	408.9	408.3
65°	384.2	372.5	362.6	355.8	356.4
67.5°	333.0	323.1	312.0	310.1	310.7
70°	284.8	274.3	266.2	270.6	273.7
72.5°	239.1	233.5	227.9	234.1	238.4
75°	201.4	196.4	192.1	200.8	206.3
77.5°	166.8	163.1	162.5	169.9	174.8
80°	134.0	129.7	131.6	140.2	144.5
82.5°	101.9	98.8	99.5	110.0	113.0
85°	68.6	67.3	69.2	78.5	79.1
87.5°	36.4	36.4	37.7	43.2	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)