

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: P293237

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293237  
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-L82765-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4258.0 lumens  
Efficiency: N/A  
Efficacy: 149.1 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

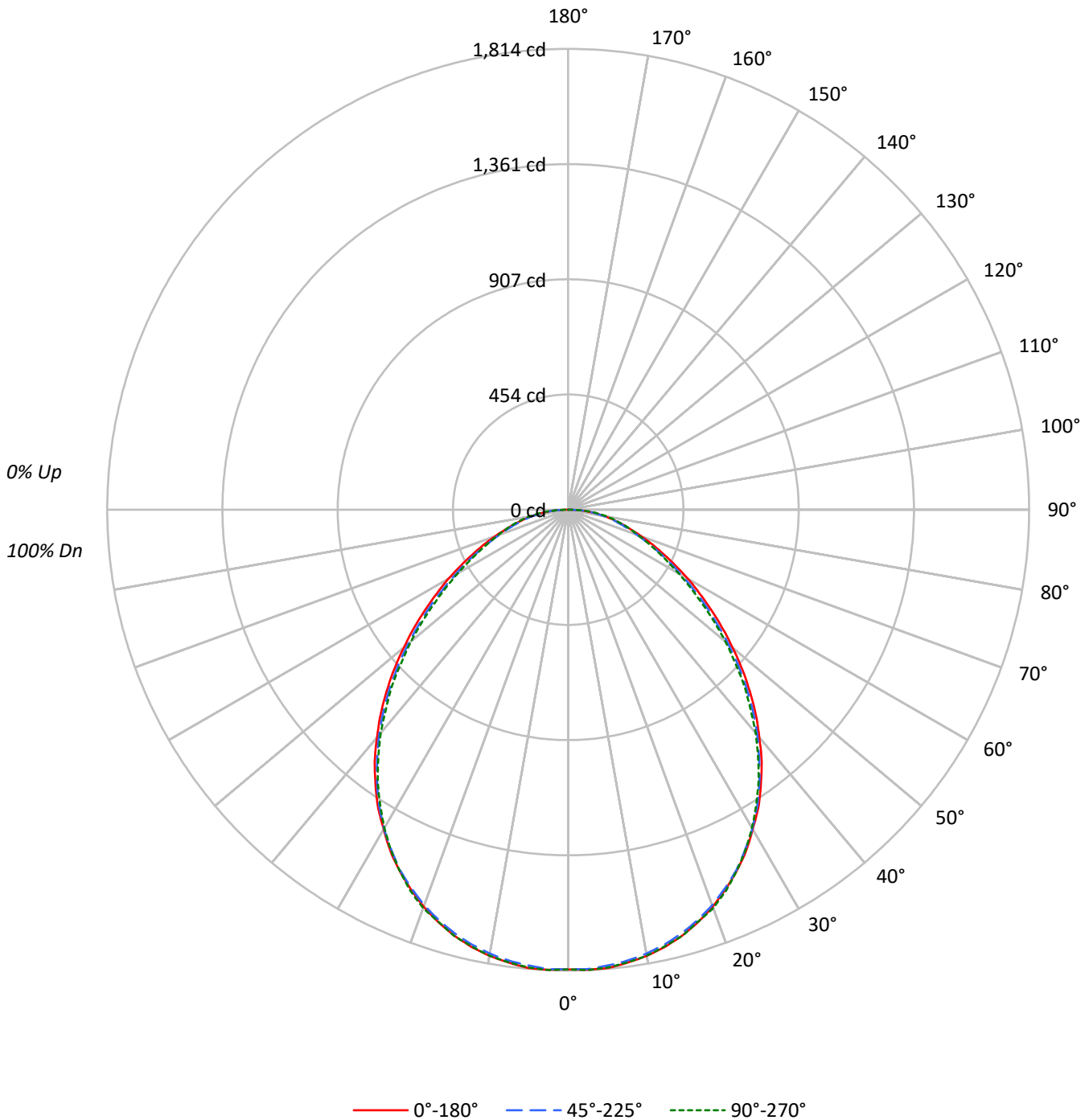
Input Watts (W): 28.551  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293237

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L82765-W2A1-U-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P293237

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L82765-W2A1-U-4500K

**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°	2435	2435	2435
5°	2446	2432	2442
10°	2436	2424	2435
15°	2417	2404	2419
20°	2381	2372	2389
25°	2330	2324	2329
30°	2256	2252	2247
35°	2171	2155	2146
40°	2055	2032	2015
45°	1922	1887	1864
50°	1766	1719	1690
55°	1611	1552	1507
60°	1463	1385	1349
65°	1318	1244	1223
70°	1207	1129	1160
75°	1128	1076	1156
80°	1119	1099	1206
85°	1141	1150	1315



TEST NUMBER: P293237

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L82765-W2A1-U-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.3	4.0
10°-20°	486.9	11.4
20°-30°	719.3	16.9
30°-40°	817.8	19.2
40°-50°	763.7	17.9
50°-60°	593.9	13.9
60°-70°	394.1	9.3
70°-80°	228.1	5.4
80°-90°	82.9	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°	1377.5	32.4
0°-40°	2195.3	51.6
0°-60°	3552.9	83.4
0°-90°	4258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4258.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1811	1802	1801	1804	1808	172
15°	1735	1726	1726	1725	1736	489
25°	1569	1563	1565	1562	1569	722
35°	1322	1315	1312	1302	1306	825
45°	1010	1002	992	979	980	778
55°	687	677	662	644	642	616
65°	414	401	391	383	384	414
75°	217	212	207	216	222	232
85°	74	72	74	84	85	80
90°	0	0	0	0	0	



TEST NUMBER: P293237

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L82765-W2A1-U-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1809.6	1809.6	1809.6	1809.6	1809.6
2.5°	1812.3	1807.0	1809.6	1807.7	1813.6
5°	1811.0	1801.7	1801.0	1804.3	1808.3
7.5°	1798.3	1788.4	1790.3	1790.3	1797.0
10°	1783.0	1773.0	1774.4	1775.0	1782.4
12.5°	1762.4	1752.4	1753.1	1752.4	1759.7
15°	1735.1	1726.5	1725.8	1725.1	1736.4
17.5°	1701.8	1689.8	1693.8	1694.5	1700.5
20°	1663.2	1653.9	1656.6	1655.9	1668.6
22.5°	1617.3	1610.6	1612.6	1611.3	1623.3
25°	1569.4	1562.7	1565.4	1562.1	1568.7
27.5°	1515.5	1510.8	1508.2	1506.2	1510.8
30°	1452.2	1449.6	1449.6	1440.9	1446.3
32.5°	1392.3	1383.7	1383.7	1380.4	1377.0
35°	1321.8	1315.1	1311.8	1302.5	1306.5
37.5°	1251.2	1235.9	1234.6	1227.3	1227.3
40°	1170.0	1161.4	1156.7	1148.8	1147.4
42.5°	1092.8	1084.2	1076.2	1062.9	1060.2
45°	1010.3	1002.3	991.7	979.0	979.7
47.5°	928.5	917.1	907.2	891.8	889.8
50°	843.9	835.9	821.3	808.0	807.3
52.5°	764.7	752.1	738.8	722.8	722.8
55°	686.9	676.9	661.6	644.3	642.3
57.5°	612.3	603.0	585.7	573.0	569.7
60°	543.8	530.4	514.5	503.8	501.2
62.5°	475.2	463.2	451.2	440.6	439.9
65°	414.0	401.3	390.7	383.4	384.0
67.5°	358.7	348.1	336.1	334.1	334.8
70°	306.8	295.5	286.9	291.5	294.8
72.5°	257.6	251.6	245.6	252.2	256.9
75°	217.0	211.6	207.0	216.3	222.3
77.5°	179.7	175.7	175.0	183.0	188.4
80°	144.4	139.8	141.8	151.1	155.7
82.5°	109.8	106.5	107.2	118.5	121.8
85°	73.9	72.5	74.5	84.5	85.2
87.5°	39.3	39.3	40.6	46.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)