

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: P293680

Luminaire Tested: **24GR-LD5-42-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-A125-UNV-L83050-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3968.0 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

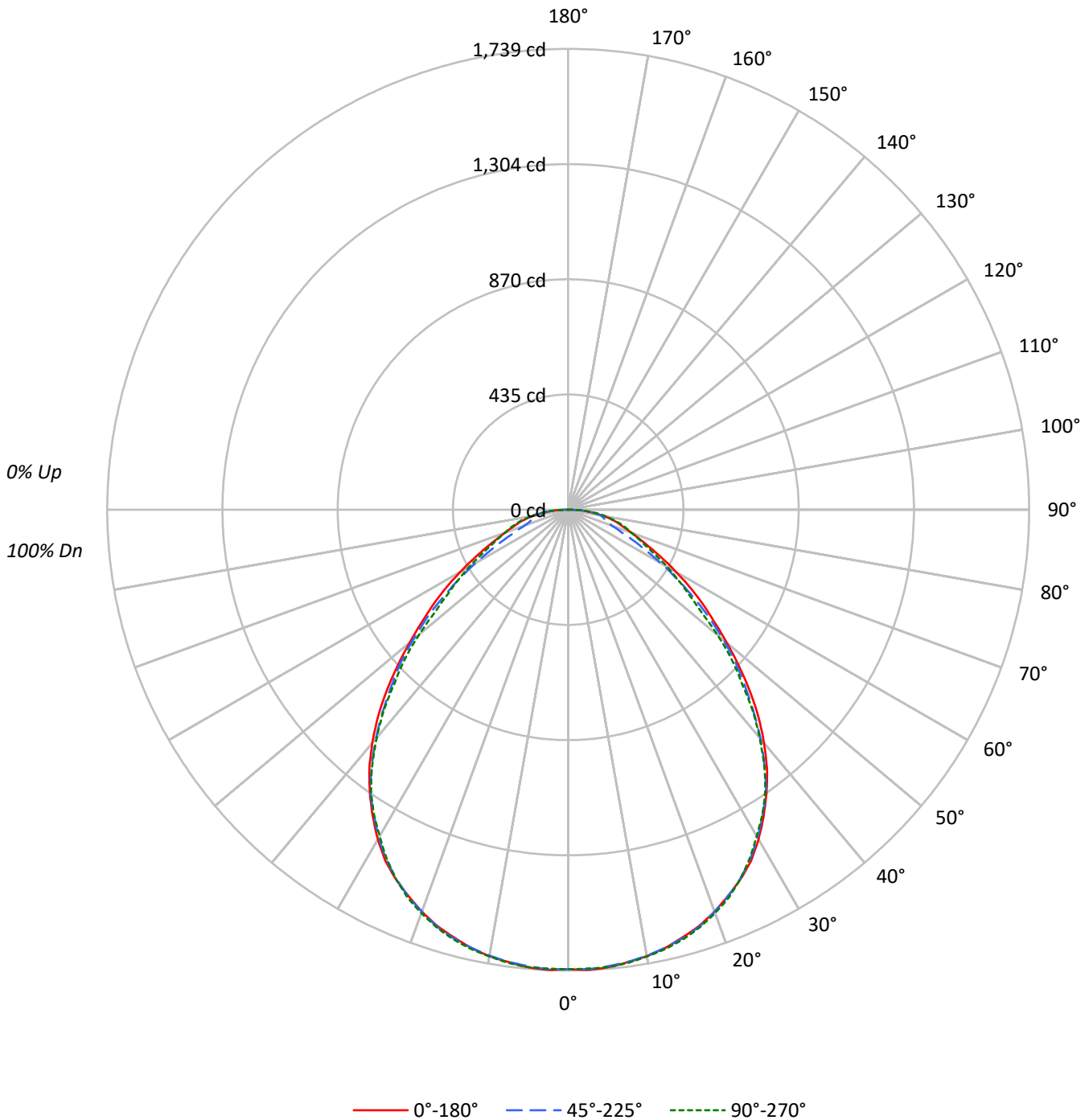
Input Watts (W): 27.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293680

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L83050-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P293680

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L83050-W2A1-U-3000K

**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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

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

	0°	45°	90°
0°	2333	2333	2333
5°	2341	2336	2340
10°	2338	2334	2338
15°	2326	2331	2337
20°	2311	2311	2320
25°	2285	2280	2282
30°	2231	2220	2209
35°	2143	2137	2129
40°	2019	1982	1973
45°	1847	1796	1763
50°	1633	1600	1538
55°	1452	1353	1301
60°	1264	1083	1161
65°	1092	840	1027
70°	996	687	994
75°	1004	740	1055
80°	1045	964	1113
85°	1090	1147	1233



TEST NUMBER: P293680

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L83050-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.5	4.1
10°-20°	471.7	11.9
20°-30°	706.1	17.8
30°-40°	806.8	20.3
40°-50°	729.4	18.4
50°-60°	524.8	13.2
60°-70°	304.2	7.7
70°-80°	180.5	4.5
80°-90°	79.9	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°	1342.3	33.8
0°-40°	2149.1	54.2
0°-60°	3403.4	85.8
0°-90°	3968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3968.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1733	1731	1730	1727	1733	165
15°	1670	1673	1673	1671	1678	471
25°	1539	1537	1536	1533	1537	707
35°	1305	1299	1301	1285	1296	814
45°	971	954	944	935	927	746
55°	619	607	577	562	555	554
65°	343	305	264	295	322	346
75°	193	162	142	176	203	204
85°	71	76	74	85	80	76
90°	0	0	0	0	0	



TEST NUMBER: P293680

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L83050-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1733.9	1733.9	1733.9	1733.9	1733.9
2.5°	1738.8	1732.6	1735.7	1733.9	1733.3
5°	1733.3	1730.8	1729.5	1727.1	1732.6
7.5°	1722.1	1720.3	1720.9	1721.5	1725.2
10°	1711.0	1707.9	1708.5	1709.7	1711.6
12.5°	1693.6	1691.8	1692.4	1693.6	1698.0
15°	1670.1	1673.2	1673.2	1671.4	1677.5
17.5°	1646.6	1646.0	1649.1	1643.5	1652.2
20°	1613.8	1614.4	1613.8	1614.4	1620.0
22.5°	1576.6	1579.7	1577.9	1577.9	1584.1
25°	1538.9	1537.0	1535.8	1532.7	1537.0
27.5°	1493.7	1490.0	1486.9	1480.7	1483.8
30°	1436.1	1436.7	1428.7	1423.1	1421.9
32.5°	1371.8	1371.8	1364.3	1360.0	1363.7
35°	1304.9	1298.7	1301.2	1285.1	1296.2
37.5°	1232.5	1222.6	1217.0	1211.4	1215.1
40°	1149.5	1136.5	1128.5	1117.3	1123.5
42.5°	1062.2	1046.1	1036.2	1028.2	1030.7
45°	970.6	953.9	944.0	935.3	926.7
47.5°	874.1	863.5	858.6	847.4	837.5
50°	780.0	776.3	764.5	755.2	734.8
52.5°	693.9	690.8	672.3	656.8	630.8
55°	619.0	607.3	576.9	562.1	554.6
57.5°	542.9	523.7	487.2	485.3	490.3
60°	469.8	446.3	402.4	412.3	431.5
62.5°	403.6	368.3	326.2	349.7	372.7
65°	342.9	304.6	263.7	294.7	322.5
67.5°	292.8	254.4	212.3	253.8	286.0
70°	253.2	214.2	174.6	222.2	252.6
72.5°	220.4	185.1	152.3	197.5	229.0
75°	193.1	161.6	142.4	175.8	203.0
77.5°	165.9	140.5	136.2	156.6	173.3
80°	134.9	123.2	124.4	137.4	143.6
82.5°	100.9	101.5	104.6	115.1	112.7
85°	70.6	76.1	74.3	85.4	79.9
87.5°	39.0	42.7	40.2	48.9	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)