

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: P293810

Luminaire Tested: **24GR-LD5-42-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293810  
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-L93050-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3922.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 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

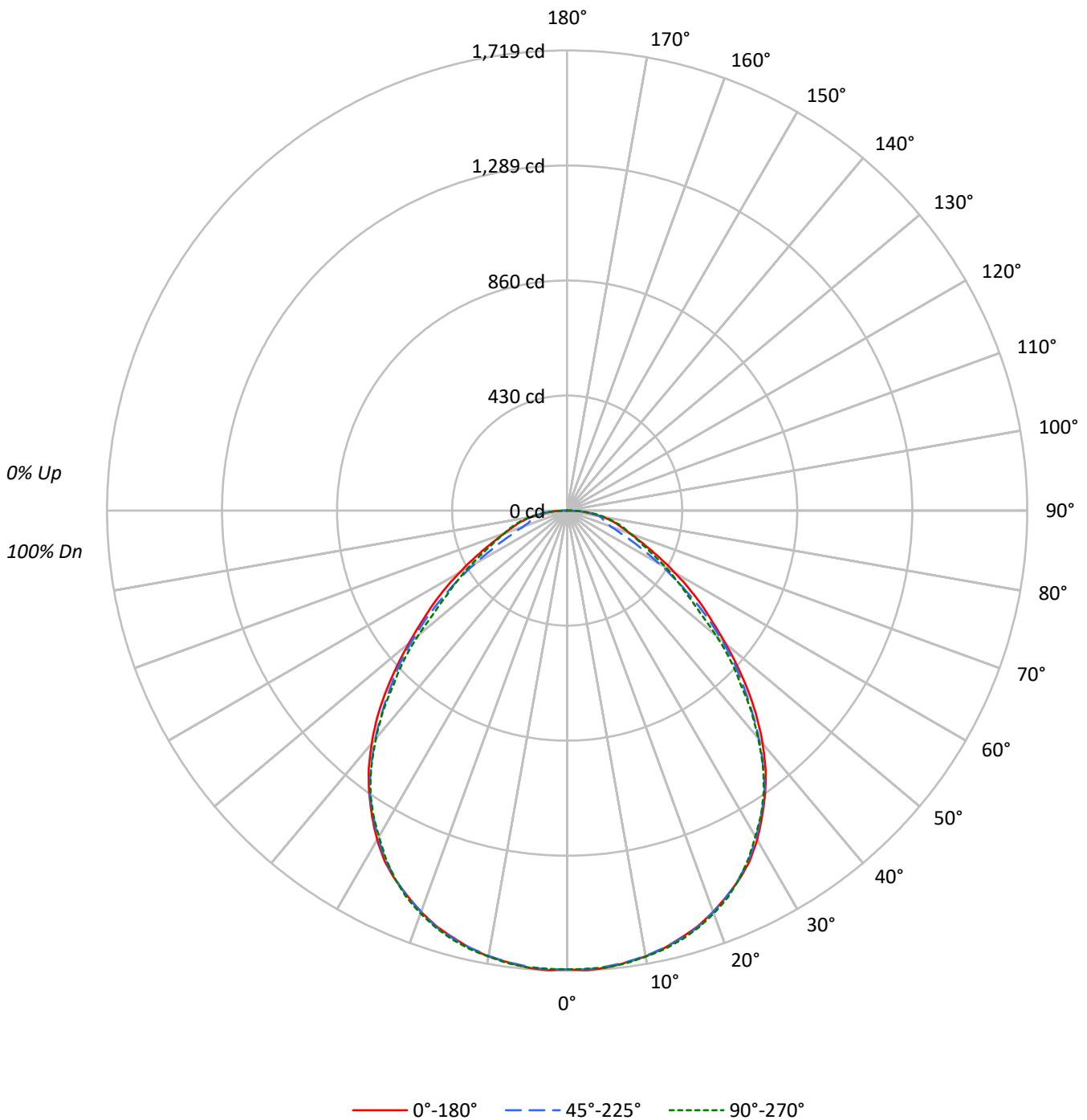
Input Watts (W): 29.168706  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2306	2306	2306
5°	2314	2309	2313
10°	2310	2307	2311
15°	2299	2304	2310
20°	2284	2284	2293
25°	2258	2254	2255
30°	2205	2194	2183
35°	2119	2112	2104
40°	1996	1959	1950
45°	1826	1776	1743
50°	1614	1582	1520
55°	1435	1338	1286
60°	1250	1070	1148
65°	1079	830	1015
70°	984	679	982
75°	992	731	1043
80°	1034	953	1099
85°	1078	1133	1218



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.6	4.1
10°-20°	466.2	11.9
20°-30°	697.9	17.8
30°-40°	797.5	20.3
40°-50°	721.0	18.4
50°-60°	518.7	13.2
60°-70°	300.7	7.7
70°-80°	178.4	4.5
80°-90°	79.0	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°	1326.7	33.8
0°-40°	2124.2	54.2
0°-60°	3363.9	85.8
0°-90°	3922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1713	1711	1710	1707	1713	163
15°	1651	1654	1654	1652	1658	466
25°	1521	1519	1518	1515	1519	699
35°	1290	1284	1286	1270	1281	804
45°	959	943	933	924	916	737
55°	612	600	570	556	548	547
65°	339	301	261	291	319	342
75°	191	160	141	174	201	202
85°	70	75	73	84	79	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1713.8	1713.8	1713.8	1713.8	1713.8
2.5°	1718.7	1712.6	1715.6	1713.8	1713.2
5°	1713.2	1710.7	1709.5	1707.0	1712.6
7.5°	1702.2	1700.3	1700.9	1701.5	1705.2
10°	1691.1	1688.1	1688.7	1689.9	1691.8
12.5°	1674.0	1672.2	1672.8	1674.0	1678.3
15°	1650.8	1653.8	1653.8	1652.0	1658.1
17.5°	1627.5	1626.9	1630.0	1624.4	1633.0
20°	1595.1	1595.7	1595.1	1595.7	1601.2
22.5°	1558.4	1561.4	1559.6	1559.6	1565.7
25°	1521.0	1519.2	1518.0	1514.9	1519.2
27.5°	1476.4	1472.7	1469.7	1463.5	1466.6
30°	1419.5	1420.1	1412.1	1406.6	1405.4
32.5°	1355.8	1355.8	1348.5	1344.2	1347.9
35°	1289.8	1283.7	1286.1	1270.2	1281.2
37.5°	1218.2	1208.4	1202.9	1197.4	1201.1
40°	1136.2	1123.3	1115.4	1104.4	1110.5
42.5°	1049.9	1034.0	1024.2	1016.3	1018.7
45°	959.4	942.9	933.1	924.5	915.9
47.5°	863.9	853.5	848.6	837.6	827.8
50°	770.9	767.3	755.6	746.5	726.3
52.5°	685.9	682.8	664.5	649.2	623.5
55°	611.8	600.2	570.2	555.6	548.2
57.5°	536.6	517.6	481.5	479.7	484.6
60°	464.4	441.1	397.7	407.5	426.5
62.5°	398.9	364.0	322.4	345.7	368.3
65°	339.0	301.0	260.6	291.2	318.8
67.5°	289.4	251.5	209.9	250.9	282.7
70°	250.2	211.7	172.5	219.7	249.6
72.5°	217.8	182.9	150.5	195.2	226.4
75°	190.9	159.7	140.7	173.8	200.7
77.5°	164.0	138.9	134.6	154.8	171.3
80°	133.4	121.8	123.0	135.8	141.9
82.5°	99.7	100.3	103.4	113.8	111.4
85°	69.8	75.3	73.4	84.4	78.9
87.5°	38.5	42.2	39.8	48.3	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)