

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: P293871

Luminaire Tested: **24GR-LD5-42-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293871
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-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986.0 lumens
Efficiency: N/A
Efficacy: 136.1 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

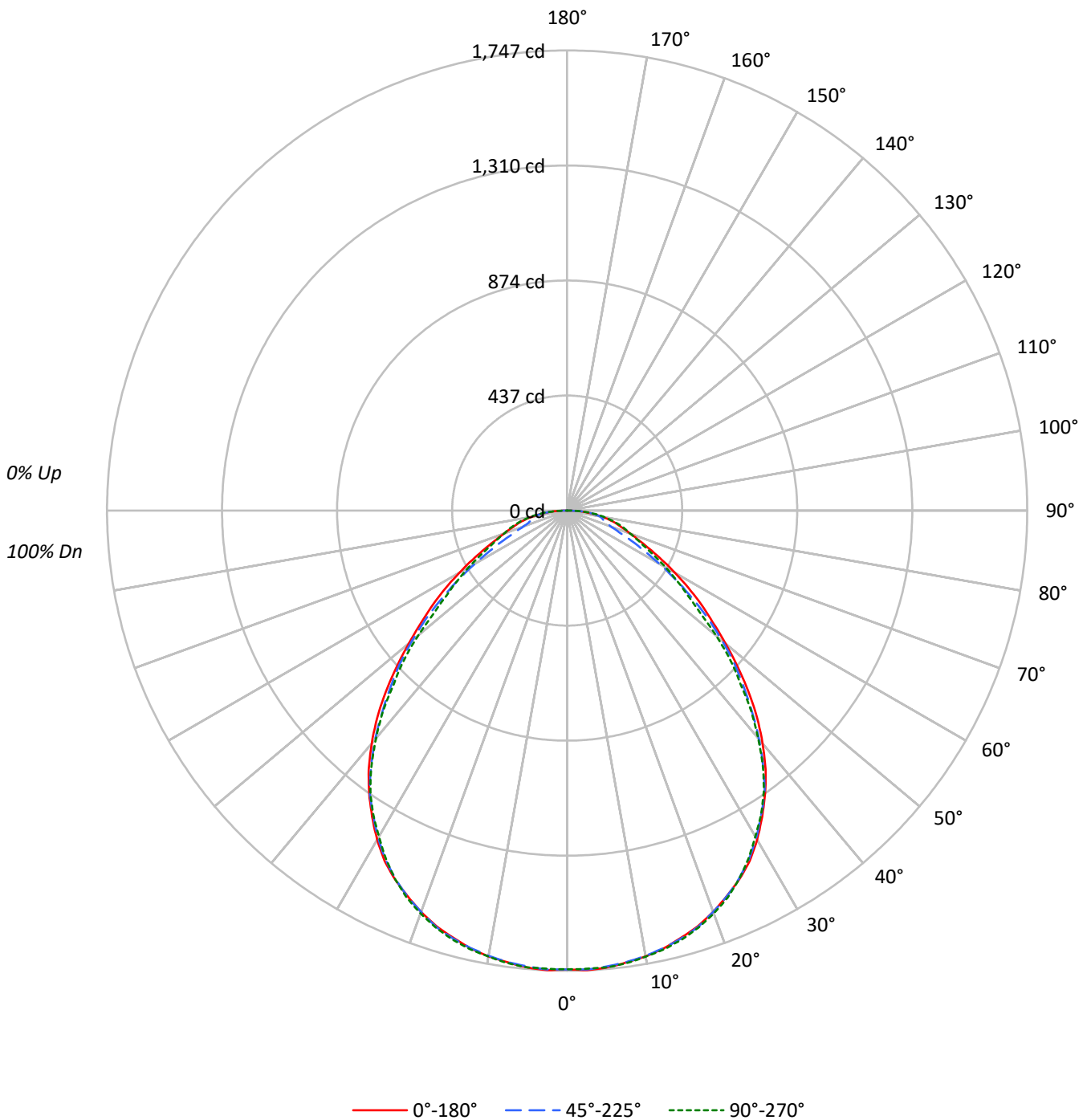
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2343	2343	2343
5°	2352	2347	2351
10°	2348	2345	2349
15°	2337	2341	2347
20°	2321	2321	2330
25°	2295	2290	2292
30°	2241	2230	2219
35°	2153	2147	2139
40°	2028	1991	1982
45°	1855	1804	1771
50°	1640	1608	1545
55°	1459	1359	1307
60°	1270	1088	1166
65°	1097	843	1032
70°	1000	690	998
75°	1009	743	1061
80°	1051	969	1118
85°	1095	1152	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	4.1
10°-20°	473.9	11.9
20°-30°	709.3	17.8
30°-40°	810.5	20.3
40°-50°	732.8	18.4
50°-60°	527.2	13.2
60°-70°	305.6	7.7
70°-80°	181.3	4.5
80°-90°	80.3	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°	1348.4	33.8
0°-40°	2158.8	54.2
0°-60°	3418.8	85.8
0°-90°	3986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1741	1739	1737	1735	1740	165
15°	1678	1681	1681	1679	1685	474
25°	1546	1544	1543	1540	1544	711
35°	1311	1305	1307	1291	1302	817
45°	975	958	948	940	931	749
55°	622	610	580	565	557	556
65°	344	306	265	296	324	348
75°	194	162	143	177	204	205
85°	71	76	75	86	80	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1746.7	1740.5	1743.6	1741.7	1741.1
5°	1741.1	1738.6	1737.4	1734.9	1740.5
7.5°	1729.9	1728.1	1728.7	1729.3	1733.0
10°	1718.7	1715.6	1716.2	1717.5	1719.4
12.5°	1701.3	1699.5	1700.1	1701.3	1705.7
15°	1677.7	1680.8	1680.8	1678.9	1685.2
17.5°	1654.1	1653.4	1656.6	1651.0	1659.7
20°	1621.1	1621.7	1621.1	1621.7	1627.3
22.5°	1583.8	1586.9	1585.0	1585.0	1591.3
25°	1545.9	1544.0	1542.8	1539.6	1544.0
27.5°	1500.5	1496.7	1493.6	1487.4	1490.5
30°	1442.6	1443.3	1435.2	1429.6	1428.3
32.5°	1378.0	1378.0	1370.5	1366.2	1369.9
35°	1310.8	1304.6	1307.1	1290.9	1302.1
37.5°	1238.1	1228.1	1222.5	1216.9	1220.7
40°	1154.7	1141.7	1133.6	1122.4	1128.6
42.5°	1067.1	1050.9	1040.9	1032.9	1035.3
45°	975.0	958.2	948.3	939.6	930.9
47.5°	878.0	867.5	862.5	851.3	841.3
50°	783.5	779.8	768.0	758.6	738.1
52.5°	697.1	694.0	675.3	659.8	633.6
55°	621.8	610.0	579.5	564.6	557.2
57.5°	545.3	526.1	489.4	487.5	492.5
60°	472.0	448.3	404.2	414.1	433.4
62.5°	405.4	370.0	327.7	351.3	374.3
65°	344.5	305.9	264.9	296.0	324.0
67.5°	294.1	255.6	213.3	254.9	287.3
70°	254.3	215.2	175.4	223.2	253.7
72.5°	221.4	185.9	153.0	198.4	230.1
75°	194.0	162.3	143.0	176.6	204.0
77.5°	166.7	141.2	136.8	157.3	174.1
80°	135.6	123.7	125.0	138.0	144.3
82.5°	101.4	102.0	105.1	115.7	113.2
85°	70.9	76.5	74.6	85.8	80.2
87.5°	39.2	42.9	40.4	49.1	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)