

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: P293804

Luminaire Tested: **24GR-LD5-38-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293804  
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-LD5-38-A125-UNV-L93050-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3601.0 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

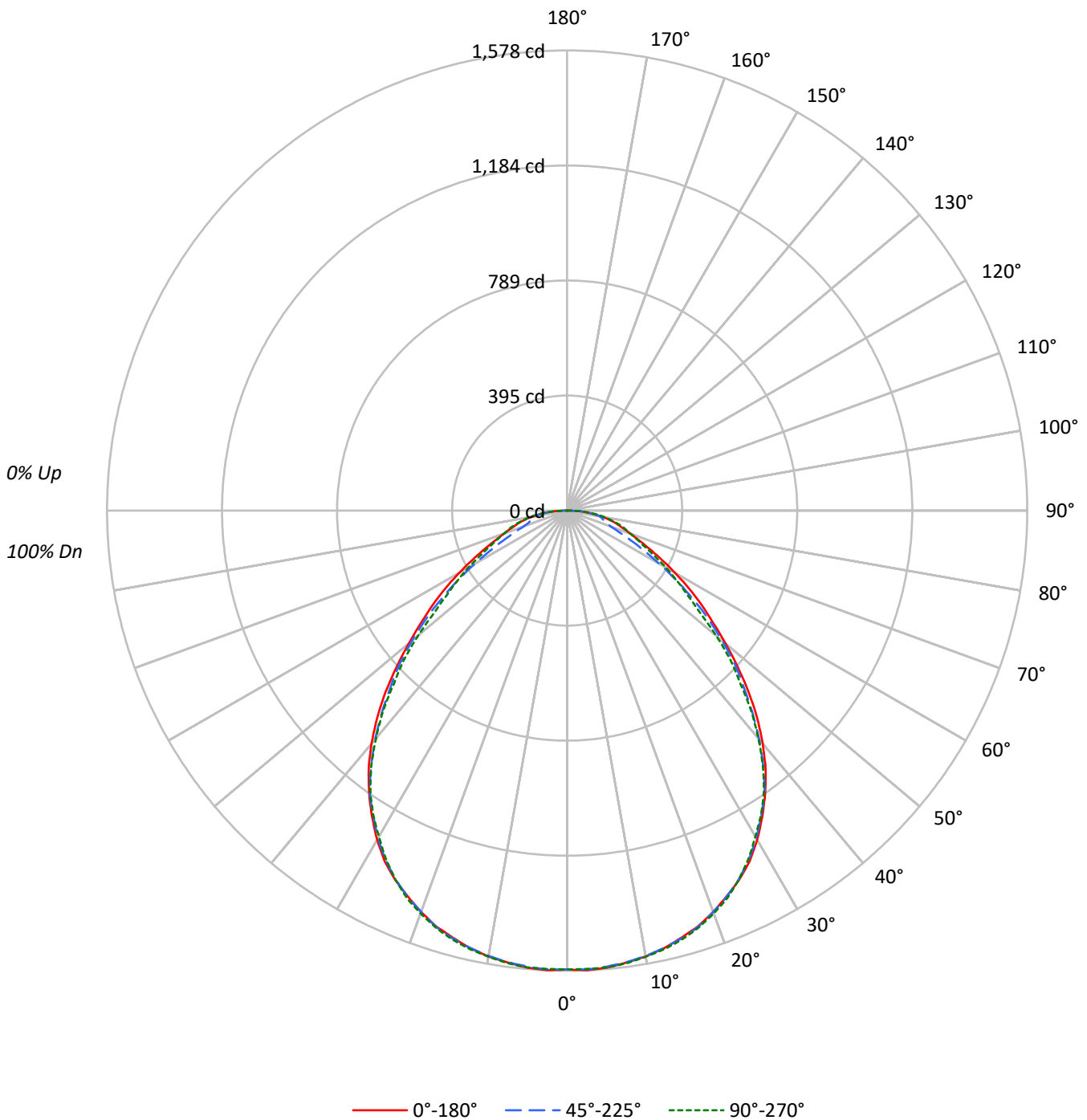
Input Watts (W): 26.455338  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2117	2117	2117
5°	2125	2120	2124
10°	2121	2118	2122
15°	2111	2115	2121
20°	2097	2097	2105
25°	2073	2069	2071
30°	2025	2014	2005
35°	1945	1940	1932
40°	1832	1799	1791
45°	1676	1630	1600
50°	1482	1452	1396
55°	1318	1228	1181
60°	1147	982	1054
65°	991	762	932
70°	904	623	902
75°	911	672	958
80°	949	875	1010
85°	988	1041	1119



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.3	4.1
10°-20°	428.1	11.9
20°-30°	640.8	17.8
30°-40°	732.2	20.3
40°-50°	662.0	18.4
50°-60°	476.3	13.2
60°-70°	276.1	7.7
70°-80°	163.8	4.5
80°-90°	72.5	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°	1218.1	33.8
0°-40°	1950.3	54.2
0°-60°	3088.6	85.8
0°-90°	3601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3601.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1573	1571	1570	1567	1572	149
15°	1516	1518	1518	1517	1522	428
25°	1397	1395	1394	1391	1395	642
35°	1184	1179	1181	1166	1176	738
45°	881	866	857	849	841	677
55°	562	551	524	510	503	503
65°	311	276	239	267	293	314
75°	175	147	129	160	184	185
85°	64	69	67	78	72	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.5	1573.5	1573.5	1573.5	1573.5
2.5°	1578.0	1572.4	1575.2	1573.5	1573.0
5°	1573.0	1570.7	1569.6	1567.3	1572.4
7.5°	1562.8	1561.2	1561.7	1562.3	1565.6
10°	1552.7	1549.9	1550.5	1551.6	1553.3
12.5°	1537.0	1535.3	1535.9	1537.0	1540.9
15°	1515.6	1518.5	1518.5	1516.8	1522.4
17.5°	1494.3	1493.7	1496.5	1491.5	1499.4
20°	1464.5	1465.1	1464.5	1465.1	1470.1
22.5°	1430.8	1433.6	1431.9	1431.9	1437.6
25°	1396.6	1394.9	1393.7	1390.9	1394.9
27.5°	1355.5	1352.2	1349.4	1343.7	1346.6
30°	1303.3	1303.9	1296.6	1291.5	1290.4
32.5°	1244.9	1244.9	1238.1	1234.2	1237.6
35°	1184.2	1178.6	1180.8	1166.2	1176.3
37.5°	1118.5	1109.5	1104.4	1099.4	1102.8
40°	1043.2	1031.4	1024.1	1014.0	1019.6
42.5°	964.0	949.4	940.4	933.1	935.3
45°	880.9	865.7	856.7	848.8	841.0
47.5°	793.2	783.7	779.2	769.1	760.1
50°	707.8	704.5	693.8	685.4	666.8
52.5°	629.7	626.9	610.1	596.0	572.4
55°	561.8	551.1	523.6	510.1	503.3
57.5°	492.7	475.3	442.1	440.4	444.9
60°	426.4	405.0	365.1	374.1	391.6
62.5°	366.3	334.3	296.1	317.4	338.2
65°	311.2	276.4	239.3	267.4	292.7
67.5°	265.7	230.9	192.7	230.3	259.5
70°	229.8	194.4	158.4	201.7	229.2
72.5°	200.0	168.0	138.2	179.2	207.9
75°	175.3	146.6	129.2	159.5	184.3
77.5°	150.6	127.5	123.6	142.1	157.3
80°	122.5	111.8	112.9	124.7	130.3
82.5°	91.6	92.1	94.9	104.5	102.2
85°	64.0	69.1	67.4	77.5	72.5
87.5°	35.4	38.8	36.5	44.4	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)