

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: P475763

Luminaire Tested: **24GR-LD5-38-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475763  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-38-A125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3694.4 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

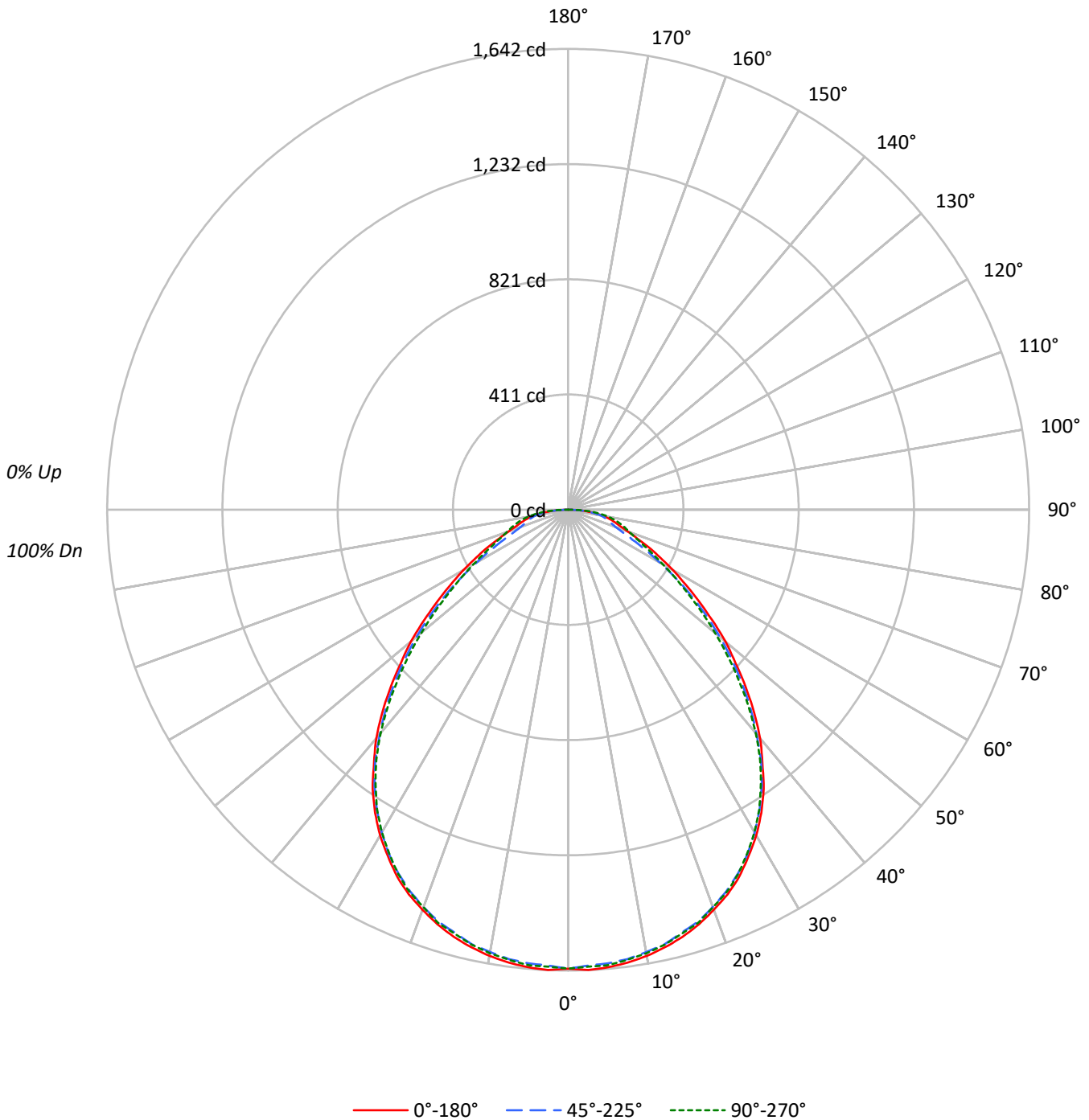
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		73	69	66	63
4	86	74	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	42	37		47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34		44	38	34		43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40	35	31	29

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

	0°	45°	90°
0°	2200	2200	2200
5°	2210	2191	2201
10°	2206	2187	2193
15°	2195	2173	2178
20°	2172	2157	2158
25°	2141	2124	2127
30°	2082	2063	2062
35°	1994	1974	1965
40°	1869	1832	1824
45°	1701	1667	1635
50°	1532	1477	1429
55°	1329	1257	1219
60°	1161	1013	1048
65°	1004	805	932
70°	886	706	910
75°	889	768	996
80°	974	912	1127
85°	1027	993	1292



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	4.2
10°-20°	441.6	12.0
20°-30°	658.4	17.8
30°-40°	748.4	20.3
40°-50°	674.5	18.3
50°-60°	485.8	13.2
60°-70°	282.6	7.6
70°-80°	172.9	4.7
80°-90°	75.7	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°	1254.5	34.0
0°-40°	2002.9	54.2
0°-60°	3163.2	85.6
0°-90°	3694.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3694.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1637	1625	1622	1626	1629	155
15°	1576	1567	1560	1563	1564	444
25°	1442	1433	1430	1428	1433	662
35°	1214	1206	1202	1195	1196	755
45°	894	884	876	862	859	690
55°	566	553	536	530	520	511
65°	315	284	253	273	293	315
75°	171	155	148	168	192	182
85°	66	66	64	87	84	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1635.2	1635.2	1635.2	1635.2	1635.2
2.5°	1641.7	1633.0	1625.7	1626.0	1629.7
5°	1636.6	1625.3	1622.4	1625.7	1629.3
7.5°	1627.5	1616.9	1615.1	1613.2	1617.6
10°	1614.3	1607.0	1600.4	1602.3	1604.8
12.5°	1596.8	1590.6	1585.8	1582.2	1587.6
15°	1575.6	1566.8	1560.2	1562.8	1563.9
17.5°	1548.9	1540.5	1538.7	1537.2	1542.7
20°	1517.1	1512.0	1506.5	1508.0	1507.2
22.5°	1483.5	1475.8	1471.4	1469.2	1475.1
25°	1442.2	1433.4	1430.5	1428.3	1432.7
27.5°	1391.7	1387.0	1383.0	1380.0	1380.4
30°	1339.8	1335.1	1327.8	1325.6	1327.1
32.5°	1280.3	1274.8	1268.2	1261.6	1266.4
35°	1214.1	1205.7	1202.1	1195.1	1196.2
37.5°	1135.9	1132.3	1129.0	1119.8	1122.8
40°	1063.9	1054.0	1043.1	1037.6	1038.7
42.5°	980.6	970.3	961.6	953.9	950.2
45°	894.0	883.7	876.1	862.5	859.2
47.5°	807.7	798.2	789.8	779.2	769.7
50°	731.7	714.1	705.7	694.8	682.7
52.5°	646.2	635.9	619.5	610.4	599.4
55°	566.5	553.0	535.8	530.3	519.7
57.5°	494.9	480.2	455.0	452.8	452.5
60°	431.3	411.5	376.4	379.0	389.6
62.5°	369.5	341.4	309.6	320.9	336.6
65°	315.4	283.6	252.9	272.6	292.7
67.5°	263.5	235.0	209.1	235.4	256.6
70°	225.1	201.4	179.5	207.6	231.3
72.5°	193.0	174.7	160.4	186.0	211.6
75°	171.0	155.0	147.7	168.1	191.5
77.5°	150.6	136.3	134.1	152.4	169.6
80°	125.7	115.9	117.7	136.3	145.5
82.5°	95.8	92.8	93.2	116.6	118.4
85°	66.5	65.8	64.3	87.3	83.7
87.5°	33.6	34.4	34.0	49.7	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)