

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: P475717

Luminaire Tested: **24GR-LD5-34-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475717  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-A-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3348.5 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

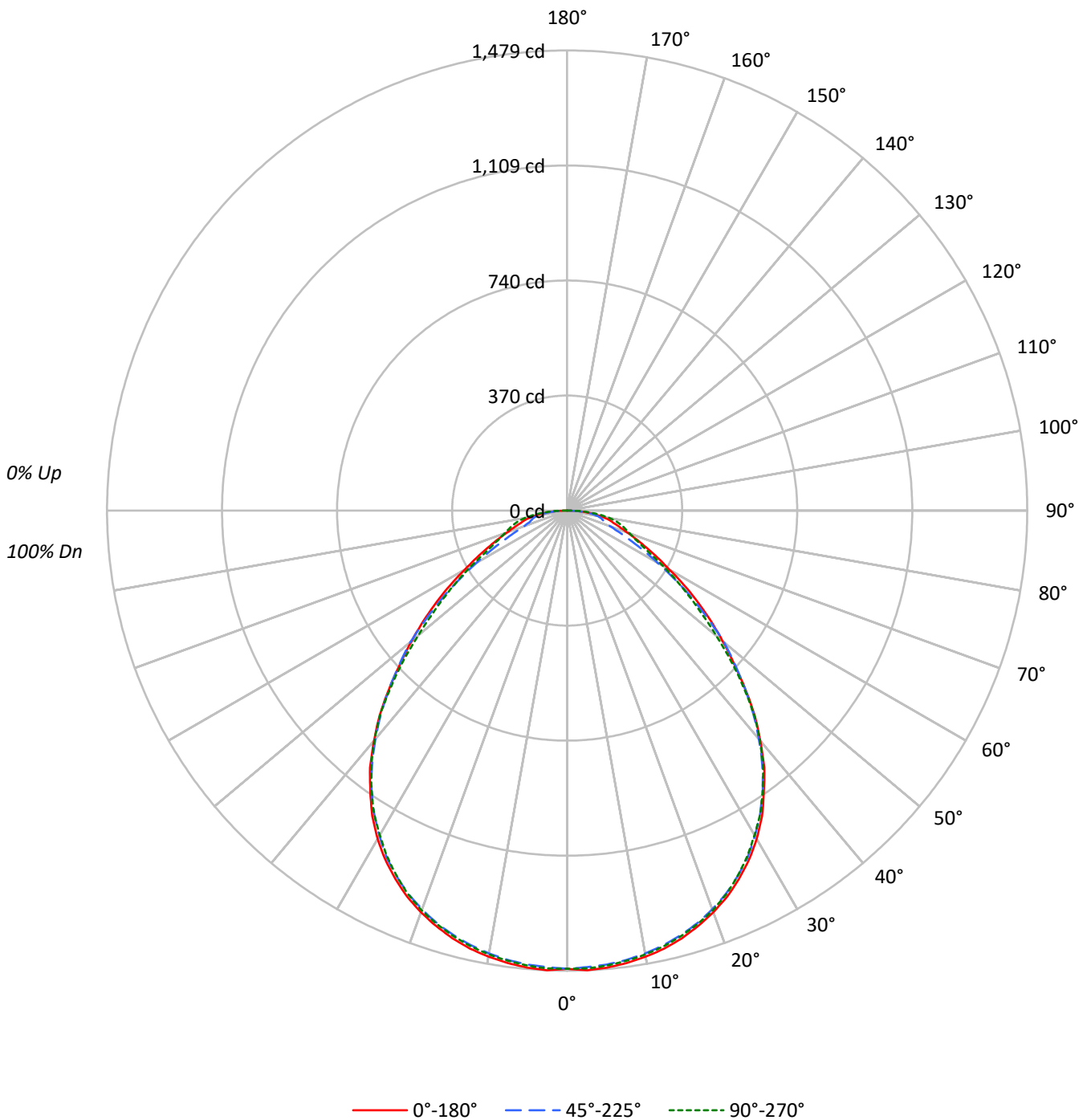
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	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	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	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	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	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°	1982	1982	1982
5°	1991	1978	1982
10°	1988	1975	1979
15°	1983	1967	1972
20°	1967	1953	1958
25°	1940	1926	1924
30°	1893	1875	1871
35°	1811	1800	1800
40°	1695	1685	1692
45°	1539	1536	1524
50°	1365	1375	1308
55°	1200	1147	1120
60°	1021	906	953
65°	892	704	841
70°	807	580	839
75°	807	619	937
80°	889	762	1073
85°	915	855	1170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	4.2
10°-20°	399.3	11.9
20°-30°	597.3	17.8
30°-40°	683.5	20.4
40°-50°	619.2	18.5
50°-60°	438.4	13.1
60°-70°	253.3	7.6
70°-80°	153.5	4.6
80°-90°	64.6	1.9
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°	1136.0	33.9
0°-40°	1819.4	54.3
0°-60°	2877.0	85.9
0°-90°	3348.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1474	1469	1464	1464	1468	140
15°	1423	1418	1412	1412	1415	401
25°	1307	1301	1297	1296	1296	601
35°	1103	1098	1096	1094	1096	688
45°	809	807	807	802	801	623
55°	511	494	489	474	477	458
65°	280	251	221	253	264	282
75°	155	139	119	153	180	166
85°	59	53	55	71	76	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1472.8	1472.8	1472.8	1472.8	1472.8
2.5°	1479.0	1473.4	1468.5	1469.1	1472.8
5°	1474.4	1469.1	1464.5	1464.2	1467.8
7.5°	1466.5	1461.9	1456.6	1456.6	1459.6
10°	1455.3	1450.7	1445.4	1445.1	1448.4
12.5°	1442.1	1436.2	1430.6	1430.6	1434.2
15°	1423.3	1417.7	1412.1	1412.1	1415.4
17.5°	1400.2	1395.3	1390.7	1391.0	1393.6
20°	1373.9	1368.9	1364.0	1364.6	1367.6
22.5°	1343.5	1337.6	1333.6	1333.3	1335.3
25°	1306.6	1301.3	1297.0	1296.1	1296.1
27.5°	1265.4	1259.8	1256.8	1252.2	1253.5
30°	1218.2	1212.3	1207.0	1204.4	1204.1
32.5°	1165.2	1159.2	1154.6	1154.3	1155.6
35°	1102.8	1097.9	1095.9	1094.3	1095.9
37.5°	1041.2	1032.0	1030.3	1030.0	1034.3
40°	965.0	961.7	959.4	957.8	963.4
42.5°	891.8	885.2	885.9	879.6	889.5
45°	808.8	807.1	807.4	801.5	800.8
47.5°	726.3	726.0	730.9	714.5	713.5
50°	652.1	648.9	657.1	631.7	624.8
52.5°	581.3	572.0	569.4	546.3	546.3
55°	511.4	494.2	488.9	474.4	477.4
57.5°	445.1	420.7	409.8	409.5	414.4
60°	379.5	351.8	336.6	348.5	354.1
62.5°	327.4	297.1	274.0	296.4	301.7
65°	280.2	251.2	221.2	253.2	264.1
67.5°	239.7	215.6	178.0	219.9	234.4
70°	205.1	183.6	147.4	193.9	213.3
72.5°	177.7	159.9	128.3	173.1	196.5
75°	155.3	139.1	119.0	153.0	180.3
77.5°	137.5	118.4	111.4	133.9	161.9
80°	114.7	97.3	98.3	115.1	138.5
82.5°	88.4	75.2	79.1	95.3	108.8
85°	59.3	53.4	55.4	70.9	75.8
87.5°	29.3	28.4	30.3	41.5	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)