

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: P475762

Luminaire Tested: **24GR-LD5-34-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475762
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-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: 3344.6 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

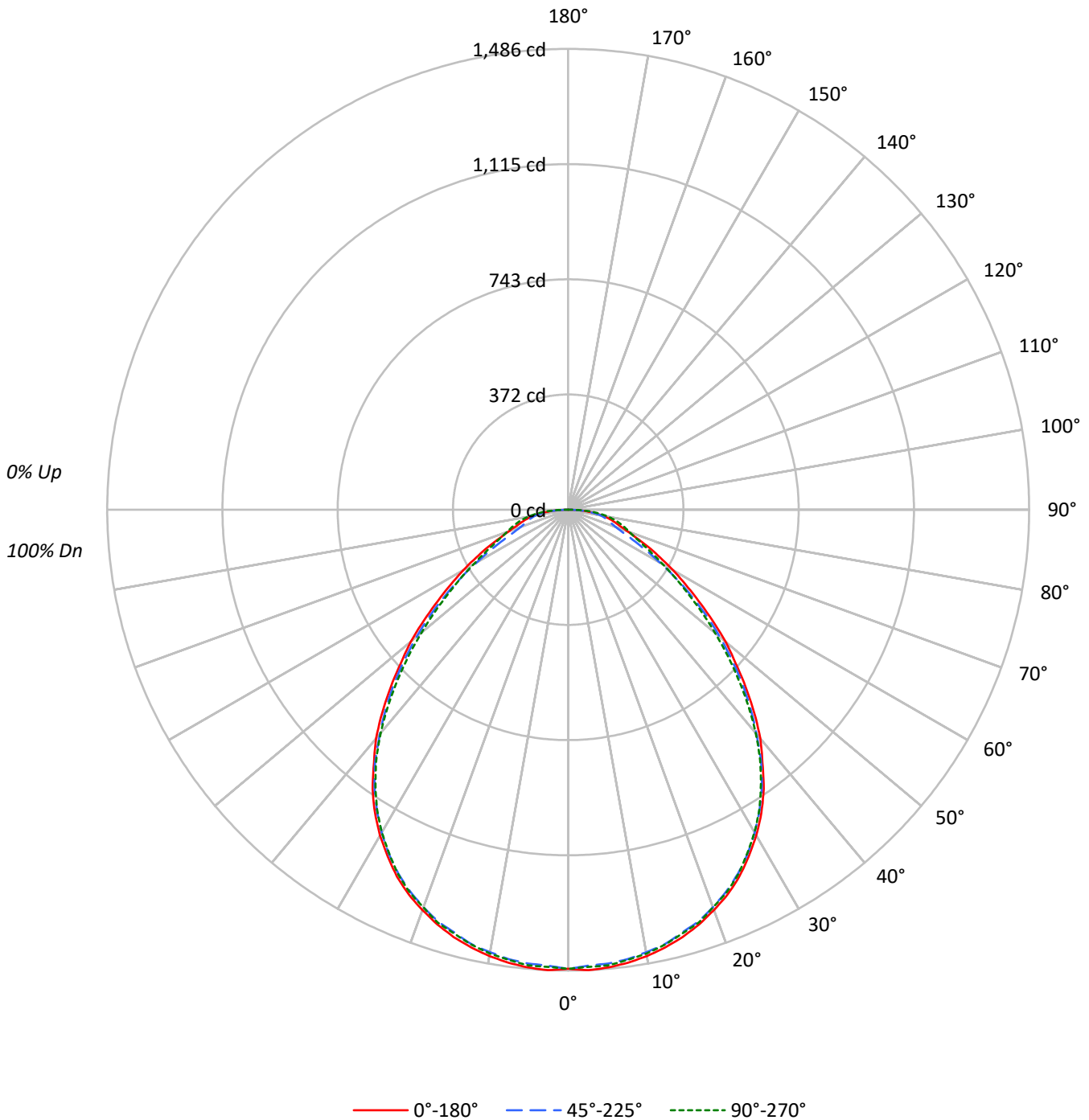
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1992	1992	1992
5°	2001	1984	1992
10°	1997	1980	1985
15°	1987	1968	1972
20°	1967	1953	1954
25°	1938	1923	1926
30°	1885	1868	1867
35°	1805	1788	1779
40°	1692	1659	1652
45°	1540	1509	1480
50°	1387	1337	1294
55°	1203	1138	1104
60°	1051	917	949
65°	909	729	844
70°	802	639	824
75°	805	695	901
80°	882	825	1020
85°	929	898	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	4.2
10°-20°	399.8	12.0
20°-30°	596.0	17.8
30°-40°	677.6	20.3
40°-50°	610.6	18.3
50°-60°	439.8	13.2
60°-70°	255.8	7.6
70°-80°	156.5	4.7
80°-90°	68.5	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°	1135.7	34.0
0°-40°	1813.3	54.2
0°-60°	2863.7	85.6
0°-90°	3344.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1482	1471	1469	1472	1475	141
15°	1426	1418	1412	1415	1416	402
25°	1306	1298	1295	1293	1297	600
35°	1099	1092	1088	1082	1083	684
45°	809	800	793	781	778	624
55°	513	501	485	480	470	462
65°	286	257	229	247	265	286
75°	155	140	134	152	173	165
85°	60	60	58	79	76	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1480.3	1480.3	1480.3	1480.3	1480.3
2.5°	1486.3	1478.4	1471.7	1472.1	1475.4
5°	1481.7	1471.4	1468.8	1471.7	1475.0
7.5°	1473.4	1463.8	1462.1	1460.5	1464.5
10°	1461.5	1454.9	1448.9	1450.6	1452.9
12.5°	1445.6	1440.0	1435.7	1432.4	1437.3
15°	1426.4	1418.5	1412.5	1414.8	1415.8
17.5°	1402.3	1394.6	1393.0	1391.7	1396.6
20°	1373.5	1368.8	1363.9	1365.2	1364.5
22.5°	1343.0	1336.1	1332.1	1330.1	1335.4
25°	1305.6	1297.7	1295.1	1293.1	1297.0
27.5°	1260.0	1255.7	1252.0	1249.4	1249.7
30°	1213.0	1208.7	1202.1	1200.1	1201.4
32.5°	1159.1	1154.1	1148.1	1142.2	1146.5
35°	1099.2	1091.6	1088.3	1082.0	1083.0
37.5°	1028.4	1025.1	1022.1	1013.8	1016.5
40°	963.2	954.2	944.3	939.4	940.4
42.5°	887.7	878.5	870.5	863.6	860.3
45°	809.3	800.1	793.1	780.9	777.9
47.5°	731.2	722.6	715.0	705.4	696.8
50°	662.4	646.5	638.9	629.0	618.1
52.5°	585.0	575.7	560.8	552.6	542.6
55°	512.9	500.6	485.1	480.1	470.5
57.5°	448.0	434.8	411.9	410.0	409.6
60°	390.4	372.6	340.8	343.1	352.7
62.5°	334.5	309.0	280.3	290.5	304.7
65°	285.5	256.8	229.0	246.8	265.0
67.5°	238.6	212.8	189.3	213.1	232.3
70°	203.8	182.3	162.5	187.9	209.4
72.5°	174.7	158.2	145.3	168.4	191.6
75°	154.9	140.3	133.7	152.2	173.4
77.5°	136.3	123.4	121.4	138.0	153.5
80°	113.8	104.9	106.5	123.4	131.7
82.5°	86.7	84.0	84.4	105.5	107.2
85°	60.2	59.6	58.2	79.1	75.8
87.5°	30.4	31.1	30.8	45.0	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)