

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: P475777

Luminaire Tested: **24GR-LD5-34-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475777
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-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3465.9 lumens
Efficiency: N/A
Efficacy: 144.4 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

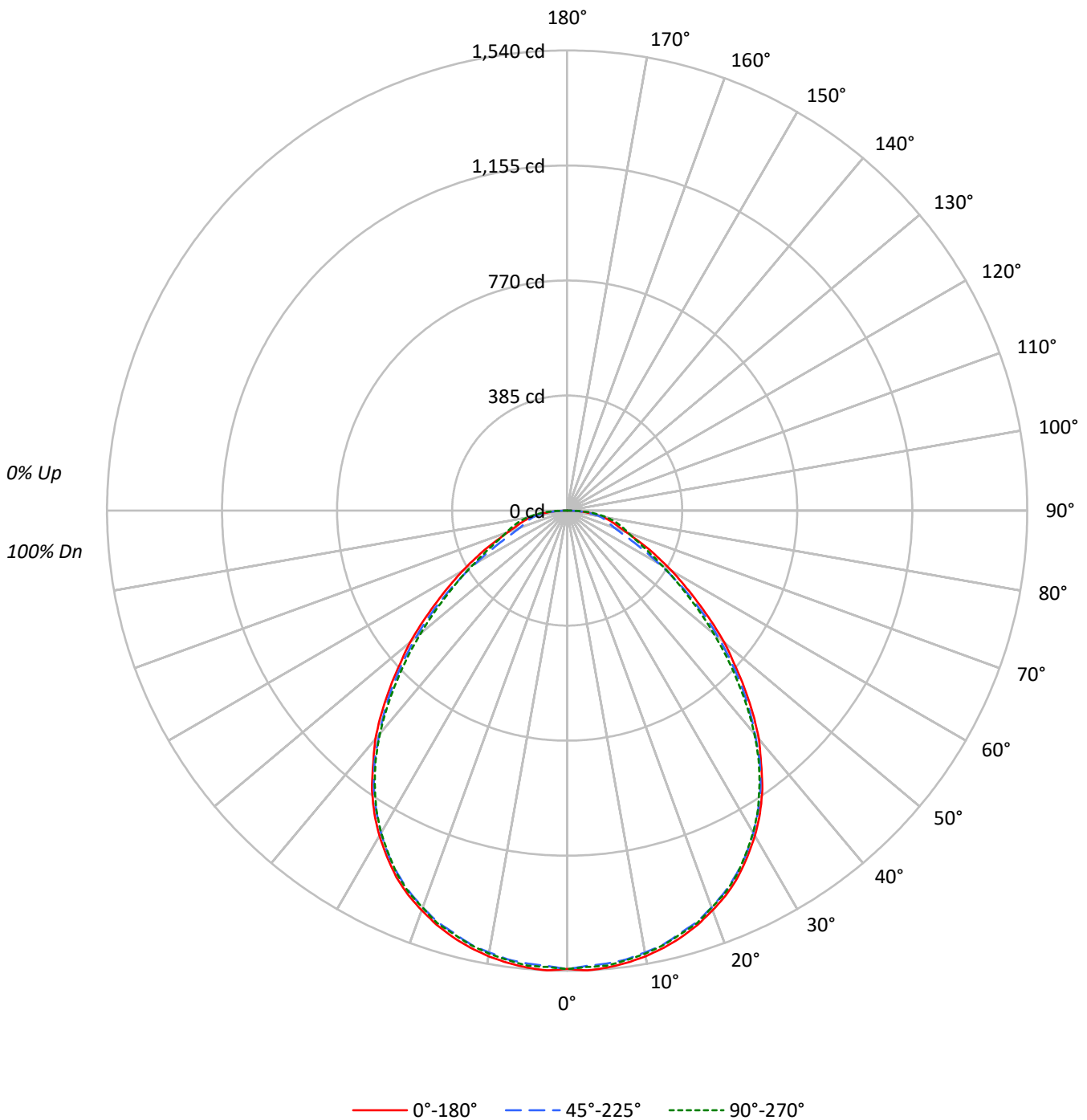
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2064	2064	2064
5°	2074	2056	2064
10°	2069	2051	2057
15°	2059	2039	2044
20°	2038	2024	2025
25°	2009	1992	1995
30°	1953	1935	1934
35°	1871	1852	1843
40°	1753	1719	1712
45°	1596	1564	1534
50°	1437	1386	1341
55°	1247	1179	1144
60°	1089	950	984
65°	942	755	874
70°	831	662	854
75°	834	720	934
80°	914	855	1058
85°	963	931	1212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	4.2
10°-20°	414.3	12.0
20°-30°	617.6	17.8
30°-40°	702.1	20.3
40°-50°	632.8	18.3
50°-60°	455.8	13.2
60°-70°	265.1	7.6
70°-80°	162.2	4.7
80°-90°	71.0	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°	1176.9	34.0
0°-40°	1879.0	54.2
0°-60°	2967.6	85.6
0°-90°	3465.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1535	1525	1522	1525	1528	146
15°	1478	1470	1464	1466	1467	417
25°	1353	1345	1342	1340	1344	621
35°	1139	1131	1128	1121	1122	709
45°	839	829	822	809	806	647
55°	532	519	503	498	488	479
65°	296	266	237	256	275	296
75°	160	145	138	158	180	171
85°	62	62	60	82	78	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.0	1534.0	1534.0	1534.0	1534.0
2.5°	1540.2	1532.0	1525.1	1525.5	1528.9
5°	1535.4	1524.8	1522.0	1525.1	1528.5
7.5°	1526.8	1516.9	1515.2	1513.5	1517.6
10°	1514.5	1507.6	1501.5	1503.2	1505.6
12.5°	1498.0	1492.2	1487.7	1484.3	1489.5
15°	1478.1	1469.9	1463.7	1466.1	1467.2
17.5°	1453.1	1445.2	1443.5	1442.1	1447.3
20°	1423.3	1418.5	1413.3	1414.7	1414.0
22.5°	1391.7	1384.5	1380.4	1378.4	1383.9
25°	1353.0	1344.8	1342.0	1340.0	1344.1
27.5°	1305.7	1301.2	1297.4	1294.7	1295.0
30°	1257.0	1252.5	1245.7	1243.6	1245.0
32.5°	1201.1	1196.0	1189.8	1183.6	1188.1
35°	1139.0	1131.2	1127.7	1121.2	1122.2
37.5°	1065.7	1062.2	1059.1	1050.6	1053.3
40°	998.1	988.9	978.6	973.4	974.5
42.5°	919.9	910.3	902.1	894.9	891.5
45°	838.7	829.1	821.9	809.2	806.1
47.5°	757.8	748.8	741.0	731.0	722.1
50°	686.4	670.0	662.1	651.8	640.5
52.5°	606.2	596.6	581.2	572.6	562.3
55°	531.5	518.8	502.7	497.5	487.6
57.5°	464.3	450.5	426.9	424.8	424.5
60°	404.6	386.1	353.2	355.6	365.5
62.5°	346.6	320.2	290.4	301.0	315.8
65°	295.9	266.1	237.3	255.8	274.6
67.5°	247.2	220.5	196.1	220.8	240.7
70°	211.2	188.9	168.4	194.8	217.0
72.5°	181.0	163.9	150.5	174.5	198.5
75°	160.5	145.4	138.5	157.7	179.7
77.5°	141.3	127.9	125.8	143.0	159.1
80°	117.9	108.7	110.4	127.9	136.5
82.5°	89.8	87.1	87.4	109.4	111.1
85°	62.4	61.7	60.3	81.9	78.5
87.5°	31.5	32.2	31.9	46.6	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)