

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: P475764

Luminaire Tested: **24GR-LD5-42-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475764
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-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: 4155.5 lumens
Efficiency: N/A
Efficacy: 137.1 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

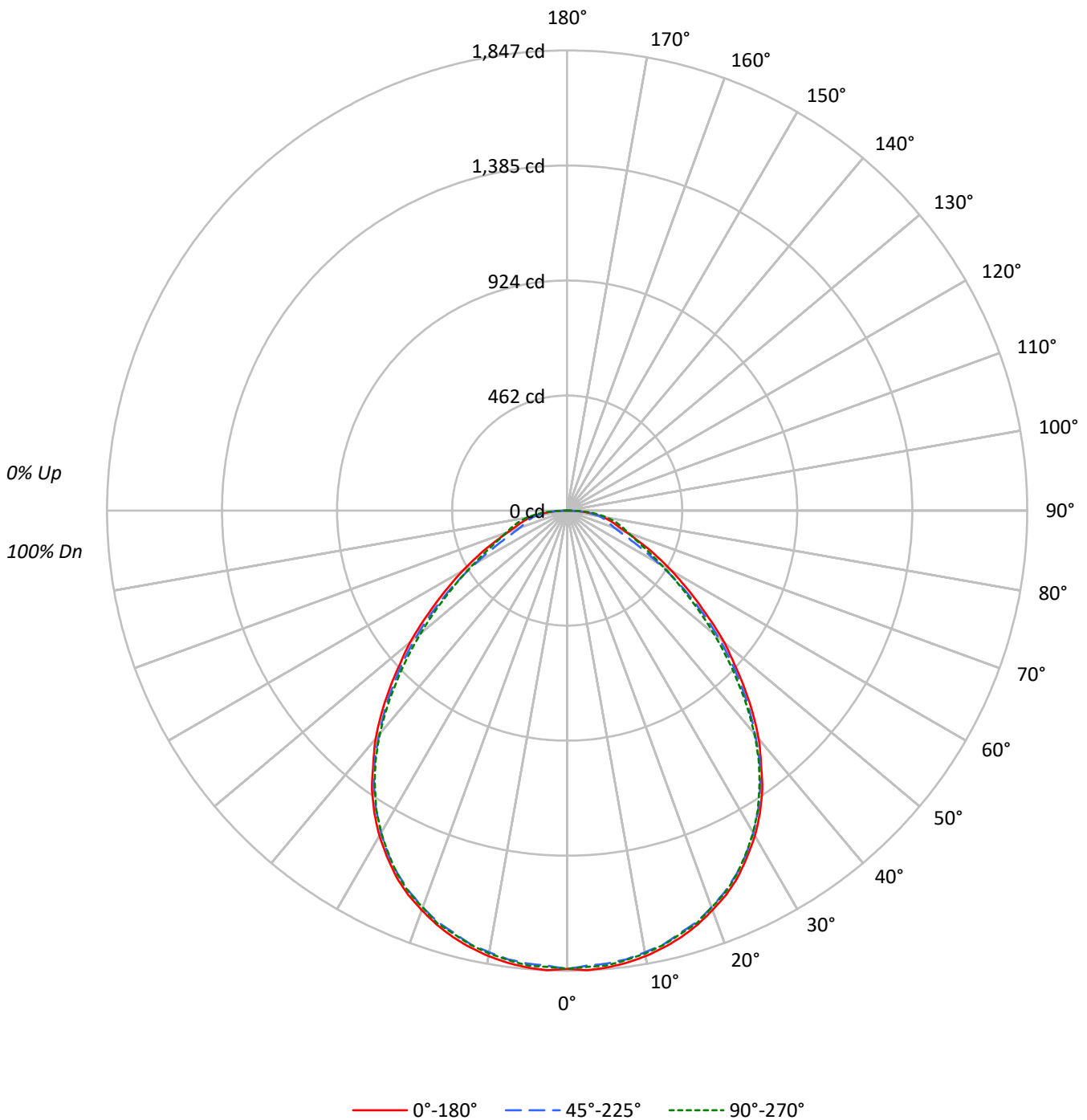
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	2475	2475	2475
5°	2486	2465	2475
10°	2481	2460	2466
15°	2469	2445	2450
20°	2443	2426	2428
25°	2408	2389	2392
30°	2341	2320	2319
35°	2243	2221	2210
40°	2102	2061	2052
45°	1913	1875	1839
50°	1723	1662	1607
55°	1495	1414	1371
60°	1305	1139	1179
65°	1130	906	1048
70°	996	794	1024
75°	1000	863	1120
80°	1096	1026	1268
85°	1155	1118	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	4.2
10°-20°	496.7	12.0
20°-30°	740.5	17.8
30°-40°	841.8	20.3
40°-50°	758.7	18.3
50°-60°	546.5	13.2
60°-70°	317.9	7.6
70°-80°	194.5	4.7
80°-90°	85.1	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°	1411.1	34.0
0°-40°	2252.9	54.2
0°-60°	3558.1	85.6
0°-90°	4155.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4155.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1839	1839	1839	1839	1839	
5°	1841	1828	1825	1829	1833	175
15°	1772	1762	1755	1758	1759	500
25°	1622	1612	1609	1607	1612	745
35°	1366	1356	1352	1344	1346	850
45°	1006	994	985	970	966	776
55°	637	622	603	596	585	575
65°	355	319	284	307	329	355
75°	192	174	166	189	215	205
85°	75	74	72	98	94	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1839.3	1839.3	1839.3	1839.3	1839.3
2.5°	1846.7	1836.8	1828.6	1829.0	1833.1
5°	1840.9	1828.2	1824.9	1828.6	1832.7
7.5°	1830.6	1818.7	1816.7	1814.6	1819.5
10°	1815.8	1807.6	1800.2	1802.3	1805.2
12.5°	1796.1	1789.1	1783.8	1779.7	1785.8
15°	1772.3	1762.4	1755.0	1757.9	1759.1
17.5°	1742.3	1732.8	1730.7	1729.1	1735.3
20°	1706.5	1700.7	1694.6	1696.2	1695.4
22.5°	1668.7	1660.0	1655.1	1652.6	1659.2
25°	1622.2	1612.4	1609.1	1606.6	1611.5
27.5°	1565.5	1560.1	1555.6	1552.3	1552.7
30°	1507.1	1501.8	1493.5	1491.1	1492.7
32.5°	1440.1	1433.9	1426.5	1419.1	1424.5
35°	1365.7	1356.2	1352.1	1344.3	1345.5
37.5°	1277.7	1273.6	1269.9	1259.6	1262.9
40°	1196.7	1185.6	1173.3	1167.1	1168.4
42.5°	1103.0	1091.5	1081.6	1073.0	1068.9
45°	1005.6	994.0	985.4	970.2	966.5
47.5°	908.5	897.9	888.4	876.5	865.8
50°	823.0	803.3	793.8	781.5	767.9
52.5°	726.8	715.3	696.8	686.5	674.2
55°	637.2	622.0	602.7	596.5	584.6
57.5°	556.6	540.2	511.8	509.4	508.9
60°	485.1	462.9	423.4	426.3	438.2
62.5°	415.6	384.0	348.2	360.9	378.6
65°	354.8	319.0	284.5	306.7	329.3
67.5°	296.4	264.3	235.2	264.8	288.6
70°	253.2	226.5	201.9	233.5	260.2
72.5°	217.1	196.5	180.5	209.3	238.0
75°	192.4	174.3	166.1	189.1	215.4
77.5°	169.4	153.3	150.9	171.4	190.8
80°	141.4	130.3	132.4	153.3	163.6
82.5°	107.7	104.4	104.8	131.1	133.2
85°	74.8	74.0	72.4	98.3	94.1
87.5°	37.8	38.6	38.2	55.9	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)