

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: P475793

Luminaire Tested: **24GR-LD5-38-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475793
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-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3901.1 lumens
Efficiency: N/A
Efficacy: 146.7 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

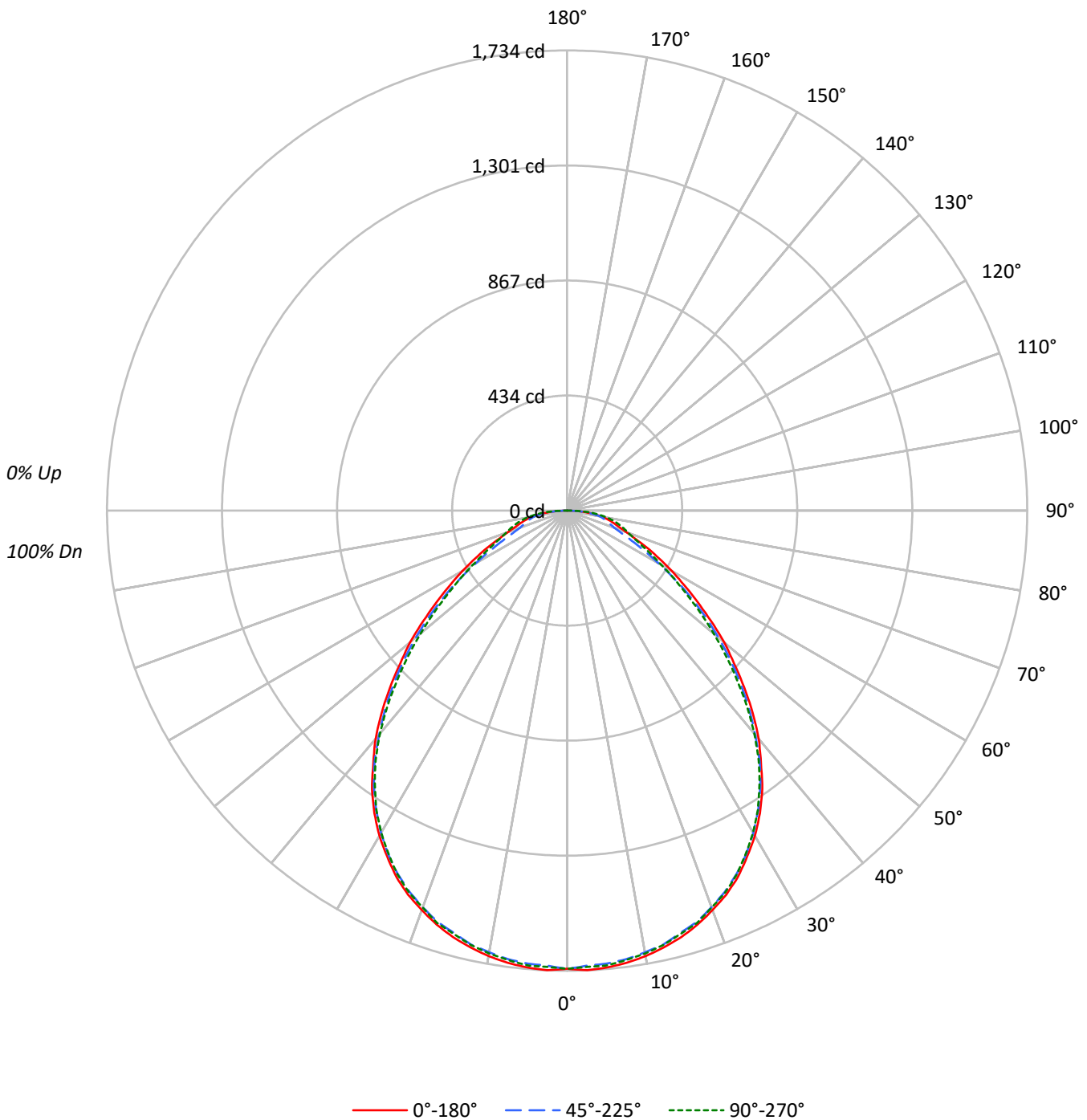
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475793

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475793

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L840-CD1-U

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°	2323	2323	2323
5°	2334	2314	2324
10°	2329	2309	2315
15°	2317	2295	2300
20°	2294	2278	2279
25°	2261	2242	2246
30°	2198	2178	2177
35°	2106	2085	2075
40°	1973	1935	1926
45°	1796	1760	1726
50°	1617	1560	1509
55°	1403	1327	1287
60°	1225	1070	1107
65°	1060	850	984
70°	935	745	961
75°	939	810	1051
80°	1029	963	1190
85°	1084	1048	1365



TEST NUMBER: P475793

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	4.2
10°-20°	466.3	12.0
20°-30°	695.2	17.8
30°-40°	790.3	20.3
40°-50°	712.2	18.3
50°-60°	513.0	13.2
60°-70°	298.4	7.6
70°-80°	182.6	4.7
80°-90°	79.9	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°	1324.7	34.0
0°-40°	2115.0	54.2
0°-60°	3340.2	85.6
0°-90°	3901.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1728	1716	1713	1717	1720	164
15°	1664	1654	1648	1650	1651	469
25°	1523	1514	1510	1508	1513	700
35°	1282	1273	1269	1262	1263	798
45°	944	933	925	911	907	728
55°	598	584	566	560	549	539
65°	333	300	267	288	309	333
75°	181	164	156	178	202	192
85°	70	70	68	92	88	74
90°	0	0	0	0	0	



TEST NUMBER: P475793

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.7	1726.7	1726.7	1726.7	1726.7
2.5°	1733.6	1724.3	1716.6	1717.0	1720.9
5°	1728.2	1716.2	1713.1	1716.6	1720.5
7.5°	1718.5	1707.4	1705.4	1703.5	1708.1
10°	1704.7	1696.9	1690.0	1691.9	1694.6
12.5°	1686.1	1679.6	1674.6	1670.7	1676.5
15°	1663.7	1654.5	1647.5	1650.2	1651.4
17.5°	1635.6	1626.7	1624.8	1623.2	1629.0
20°	1602.0	1596.6	1590.8	1592.4	1591.6
22.5°	1566.5	1558.4	1553.8	1551.4	1557.6
25°	1522.9	1513.6	1510.5	1508.2	1512.8
27.5°	1469.6	1464.6	1460.4	1457.3	1457.7
30°	1414.8	1409.8	1402.1	1399.8	1401.3
32.5°	1351.9	1346.1	1339.2	1332.2	1337.3
35°	1282.1	1273.2	1269.3	1262.0	1263.2
37.5°	1199.5	1195.6	1192.1	1182.5	1185.6
40°	1123.4	1113.0	1101.4	1095.7	1096.8
42.5°	1035.5	1024.6	1015.4	1007.3	1003.4
45°	944.0	933.2	925.1	910.8	907.3
47.5°	852.9	842.9	834.0	822.8	812.8
50°	772.6	754.1	745.2	733.7	720.9
52.5°	682.3	671.5	654.2	644.5	632.9
55°	598.2	583.9	565.8	560.0	548.8
57.5°	522.6	507.1	480.5	478.2	477.8
60°	455.4	434.6	397.5	400.2	411.4
62.5°	390.2	360.5	326.9	338.8	355.4
65°	333.1	299.5	267.1	287.9	309.1
67.5°	278.3	248.2	220.8	248.5	270.9
70°	237.7	212.6	189.5	219.2	244.3
72.5°	203.8	184.5	169.4	196.4	223.5
75°	180.6	163.6	155.9	177.5	202.2
77.5°	159.0	144.0	141.6	160.9	179.1
80°	132.8	122.3	124.3	144.0	153.6
82.5°	101.1	98.0	98.4	123.1	125.0
85°	70.2	69.5	67.9	92.2	88.4
87.5°	35.5	36.3	35.9	52.5	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)