

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: P475703

Luminaire Tested: **24GR-LD5-38-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475703
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3569.2 lumens
Efficiency: N/A
Efficacy: 134.2 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

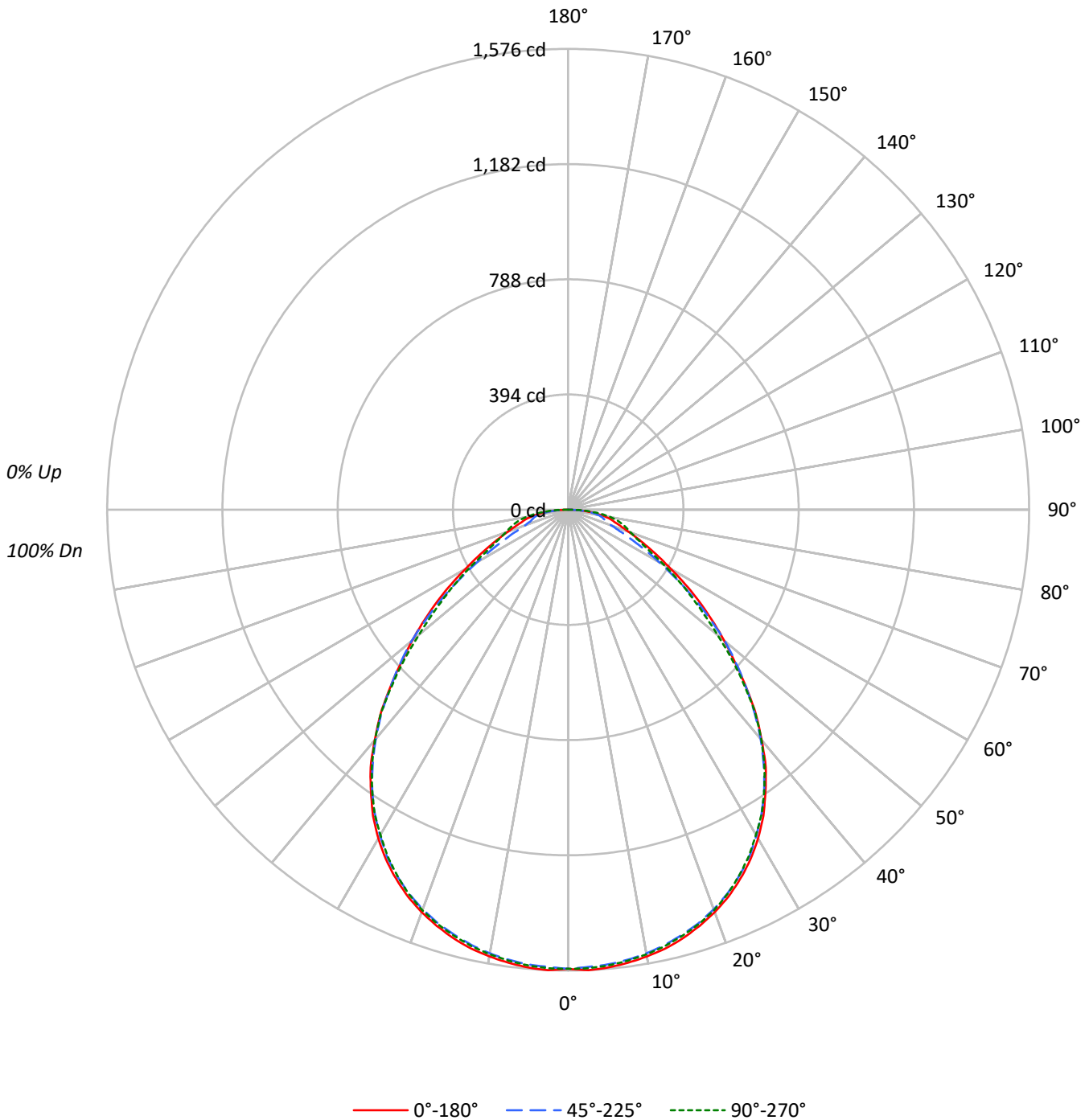
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2112	2112	2112
5°	2123	2108	2113
10°	2119	2105	2109
15°	2113	2097	2102
20°	2097	2082	2087
25°	2068	2052	2051
30°	2017	1999	1994
35°	1931	1919	1919
40°	1807	1796	1804
45°	1640	1638	1624
50°	1455	1466	1394
55°	1279	1223	1194
60°	1089	966	1016
65°	951	751	896
70°	860	618	895
75°	860	660	999
80°	948	811	1144
85°	977	911	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	4.2
10°-20°	425.6	11.9
20°-30°	636.6	17.8
30°-40°	728.5	20.4
40°-50°	660.1	18.5
50°-60°	467.3	13.1
60°-70°	269.9	7.6
70°-80°	163.7	4.6
80°-90°	68.9	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°	1210.8	33.9
0°-40°	1939.4	54.3
0°-60°	3066.7	85.9
0°-90°	3569.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3569.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1572	1566	1561	1561	1565	149
15°	1517	1511	1505	1505	1509	428
25°	1393	1387	1382	1382	1382	641
35°	1176	1170	1168	1166	1168	733
45°	862	860	861	854	854	664
55°	545	527	521	506	509	488
65°	299	268	236	270	282	300
75°	166	148	127	163	192	177
85°	63	57	59	76	81	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1576.5	1570.6	1565.3	1566.0	1569.9
5°	1571.6	1566.0	1561.1	1560.7	1564.6
7.5°	1563.2	1558.3	1552.6	1552.6	1555.8
10°	1551.2	1546.3	1540.7	1540.3	1543.8
12.5°	1537.2	1530.8	1524.9	1524.9	1528.7
15°	1517.1	1511.2	1505.2	1505.2	1508.7
17.5°	1492.5	1487.3	1482.3	1482.7	1485.5
20°	1464.4	1459.2	1453.9	1454.6	1457.7
22.5°	1432.1	1425.8	1421.5	1421.2	1423.3
25°	1392.7	1387.1	1382.5	1381.5	1381.5
27.5°	1348.8	1342.8	1339.7	1334.7	1336.2
30°	1298.5	1292.2	1286.6	1283.8	1283.4
32.5°	1242.0	1235.6	1230.7	1230.4	1231.8
35°	1175.5	1170.3	1168.2	1166.4	1168.2
37.5°	1109.8	1100.0	1098.2	1097.9	1102.4
40°	1028.6	1025.1	1022.7	1020.9	1026.9
42.5°	950.6	943.6	944.3	937.6	948.2
45°	862.1	860.3	860.7	854.3	853.6
47.5°	774.2	773.9	779.1	761.6	760.5
50°	695.1	691.6	700.4	673.3	666.0
52.5°	619.6	609.7	606.9	582.3	582.3
55°	545.1	526.8	521.2	505.7	508.9
57.5°	474.4	448.4	436.8	436.5	441.8
60°	404.5	375.0	358.8	371.5	377.4
62.5°	349.0	316.6	292.0	315.9	321.6
65°	298.7	267.8	235.8	269.9	281.5
67.5°	255.5	229.8	189.8	234.4	249.9
70°	218.6	195.7	157.1	206.6	227.4
72.5°	189.4	170.4	136.7	184.5	209.5
75°	165.5	148.3	126.9	163.1	192.2
77.5°	146.5	126.2	118.8	142.7	172.6
80°	122.3	103.7	104.7	122.7	147.6
82.5°	94.2	80.1	84.3	101.6	116.0
85°	63.3	56.9	59.0	75.6	80.8
87.5°	31.3	30.2	32.3	44.3	44.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)