

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: P475583

Luminaire Tested: **24GR-LD5-38-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475583
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3679.4 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

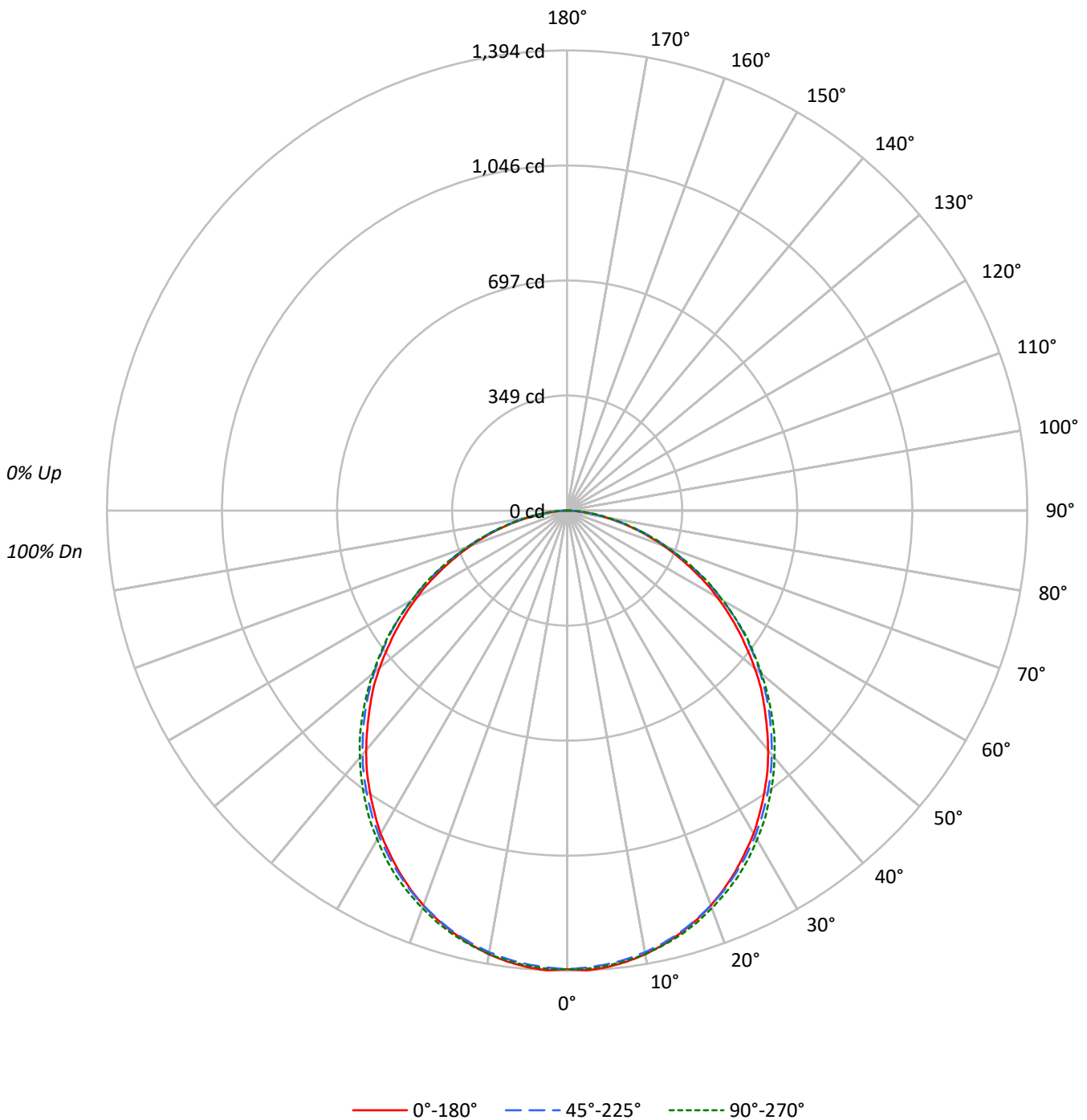
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1870	1870	1870
5°	1875	1864	1869
10°	1865	1856	1863
15°	1846	1842	1853
20°	1822	1823	1835
25°	1791	1798	1817
30°	1756	1769	1787
35°	1711	1734	1754
40°	1664	1694	1716
45°	1609	1648	1669
50°	1553	1598	1609
55°	1485	1539	1550
60°	1414	1463	1464
65°	1322	1372	1380
70°	1224	1259	1255
75°	1088	1127	1130
80°	910	942	978
85°	682	735	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.6
10°-20°	373.5	10.2
20°-30°	558.4	15.2
30°-40°	659.7	17.9
40°-50°	666.0	18.1
50°-60°	581.2	15.8
60°-70°	423.7	11.5
70°-80°	228.5	6.2
80°-90°	57.2	1.6
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°	1063.2	28.9
0°-40°	1722.9	46.8
0°-60°	2970.0	80.7
0°-90°	3679.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3679.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1388	1384	1380	1381	1384	132
15°	1325	1323	1322	1326	1330	374
25°	1206	1206	1211	1219	1224	555
35°	1041	1044	1056	1066	1068	652
45°	845	851	866	877	877	653
55°	633	641	656	658	661	566
65°	415	424	431	432	433	412
75°	209	211	217	218	217	222
85°	44	45	48	50	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.6	1389.6	1389.6	1389.6	1389.6
2.5°	1394.1	1389.1	1385.2	1386.0	1389.3
5°	1388.5	1383.5	1379.8	1381.0	1383.7
7.5°	1378.5	1373.9	1371.0	1372.2	1375.8
10°	1364.7	1361.0	1358.3	1360.1	1363.9
12.5°	1347.2	1343.5	1342.4	1345.1	1348.5
15°	1325.3	1322.6	1322.4	1325.5	1330.5
17.5°	1300.7	1298.0	1299.4	1303.6	1308.0
20°	1272.8	1270.2	1273.2	1278.8	1281.7
22.5°	1240.8	1238.8	1244.0	1249.8	1253.6
25°	1206.2	1206.4	1211.0	1218.7	1223.7
27.5°	1167.8	1169.3	1176.2	1183.7	1188.7
30°	1130.1	1128.8	1138.6	1146.8	1150.5
32.5°	1086.3	1086.9	1098.4	1106.7	1112.4
35°	1041.4	1044.4	1055.6	1065.8	1067.9
37.5°	996.2	998.3	1011.8	1021.8	1024.5
40°	947.2	950.9	964.3	973.6	977.0
42.5°	896.1	900.9	915.2	925.0	929.4
45°	845.4	851.4	866.0	876.9	877.1
47.5°	796.4	800.7	814.9	824.5	823.5
50°	741.7	748.2	763.4	769.2	768.6
52.5°	685.8	695.6	709.6	714.2	713.5
55°	633.2	641.0	656.0	658.5	660.8
57.5°	578.8	585.5	601.8	602.8	602.4
60°	525.6	531.7	543.6	546.5	544.2
62.5°	472.0	478.1	488.7	491.6	491.2
65°	415.1	424.0	431.1	432.0	433.4
67.5°	362.1	367.7	374.6	375.9	374.8
70°	311.2	316.0	320.0	320.8	318.9
72.5°	258.6	263.0	268.6	269.7	267.6
75°	209.2	211.3	216.7	217.5	217.3
77.5°	161.2	162.9	166.9	170.0	170.4
80°	117.4	118.1	121.6	123.9	126.2
82.5°	77.8	79.5	82.2	84.5	86.6
85°	44.2	45.3	47.6	49.9	49.2
87.5°	17.1	19.4	19.6	21.9	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)