

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: P475613

Luminaire Tested: **24GR-LD5-38-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475613
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-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3885.3 lumens
Efficiency: N/A
Efficacy: 146.1 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

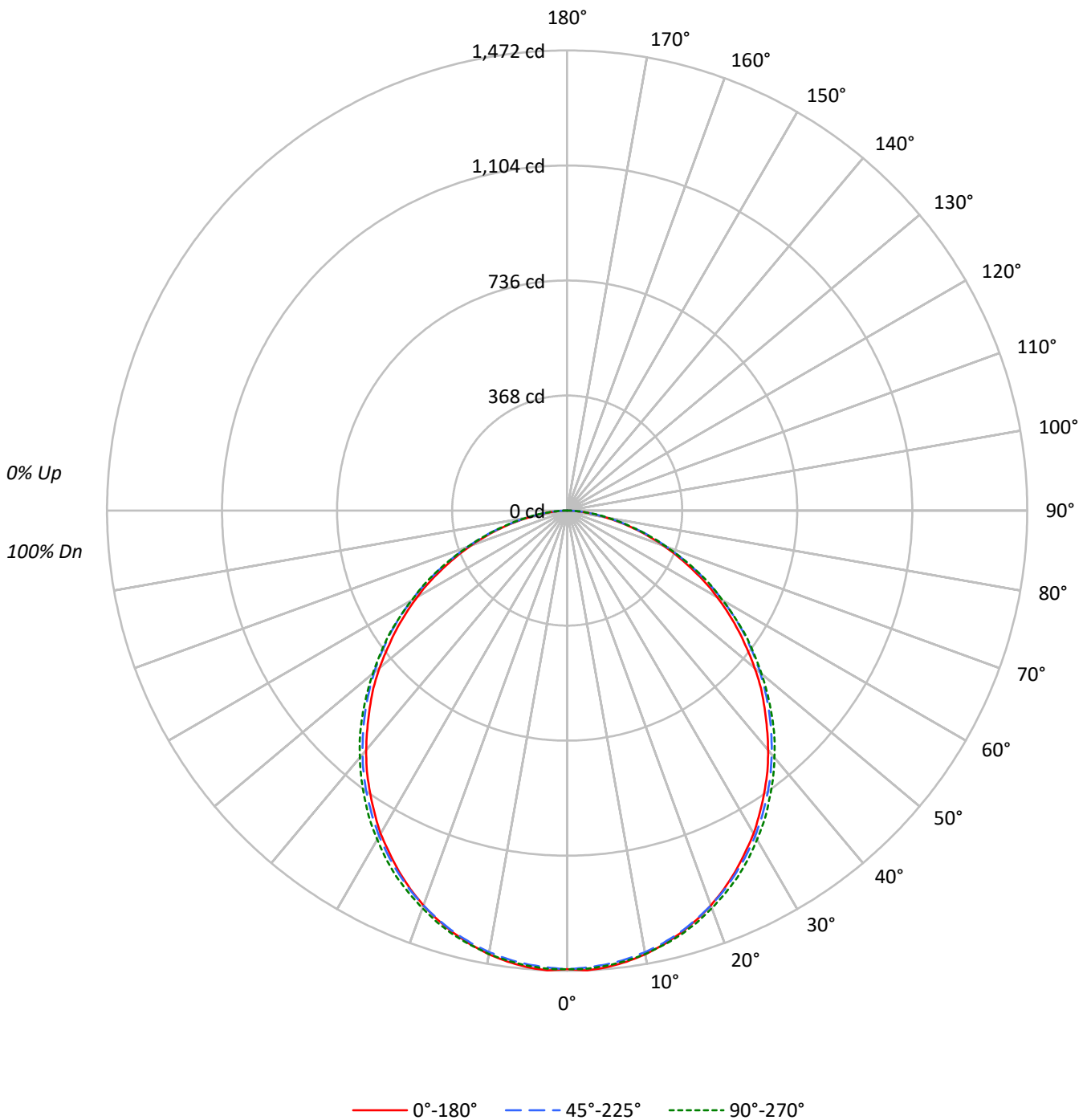
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1974	1974	1974
5°	1980	1968	1973
10°	1969	1960	1968
15°	1949	1945	1957
20°	1924	1925	1938
25°	1891	1898	1918
30°	1854	1868	1888
35°	1806	1831	1852
40°	1757	1788	1812
45°	1699	1740	1762
50°	1639	1687	1699
55°	1569	1625	1637
60°	1493	1545	1546
65°	1395	1450	1457
70°	1293	1329	1325
75°	1148	1189	1193
80°	961	995	1033
85°	721	775	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.6
10°-20°	394.4	10.2
20°-30°	589.6	15.2
30°-40°	696.6	17.9
40°-50°	703.2	18.1
50°-60°	613.7	15.8
60°-70°	447.4	11.5
70°-80°	241.3	6.2
80°-90°	60.4	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°	1122.7	28.9
0°-40°	1819.3	46.8
0°-60°	3136.2	80.7
0°-90°	3885.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1466	1461	1457	1458	1461	139
15°	1400	1397	1396	1400	1405	395
25°	1274	1274	1279	1287	1292	586
35°	1100	1103	1115	1126	1128	688
45°	893	899	914	926	926	689
55°	669	677	693	695	698	598
65°	438	448	455	456	458	436
75°	221	223	229	230	230	235
85°	47	48	50	53	52	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.3	1467.3	1467.3	1467.3	1467.3
2.5°	1472.2	1466.9	1462.7	1463.6	1467.1
5°	1466.2	1460.9	1457.0	1458.3	1461.1
7.5°	1455.6	1450.8	1447.7	1449.0	1452.8
10°	1441.1	1437.1	1434.3	1436.3	1440.2
12.5°	1422.6	1418.6	1417.5	1420.4	1423.9
15°	1399.5	1396.6	1396.4	1399.7	1405.0
17.5°	1373.5	1370.6	1372.2	1376.6	1381.2
20°	1344.0	1341.3	1344.4	1350.4	1353.4
22.5°	1310.3	1308.1	1313.6	1319.7	1323.7
25°	1273.7	1273.9	1278.8	1286.9	1292.2
27.5°	1233.2	1234.7	1242.0	1249.9	1255.2
30°	1193.3	1192.0	1202.3	1210.9	1214.9
32.5°	1147.1	1147.7	1159.8	1168.7	1174.6
35°	1099.7	1102.8	1114.7	1125.5	1127.7
37.5°	1051.9	1054.1	1068.4	1079.0	1081.9
40°	1000.2	1004.1	1018.2	1028.1	1031.7
42.5°	946.2	951.3	966.5	976.8	981.4
45°	892.7	899.1	914.5	925.9	926.2
47.5°	840.9	845.5	860.5	870.7	869.6
50°	783.2	790.0	806.1	812.3	811.6
52.5°	724.2	734.5	749.3	754.1	753.5
55°	668.7	676.8	692.7	695.3	697.8
57.5°	611.2	618.2	635.4	636.5	636.1
60°	555.0	561.4	574.0	577.1	574.6
62.5°	498.4	504.8	516.0	519.1	518.7
65°	438.3	447.8	455.3	456.1	457.7
67.5°	382.4	388.3	395.6	396.9	395.8
70°	328.6	333.7	337.9	338.7	336.8
72.5°	273.1	277.7	283.7	284.8	282.6
75°	220.9	223.1	228.8	229.7	229.5
77.5°	170.3	172.0	176.2	179.5	179.9
80°	124.0	124.7	128.4	130.8	133.3
82.5°	82.2	83.9	86.8	89.2	91.4
85°	46.7	47.8	50.2	52.6	52.0
87.5°	18.1	20.5	20.7	23.1	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)