

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: P257177

Luminaire Tested: **22GR-LD5-43-F125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257177
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F125-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3706.1 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

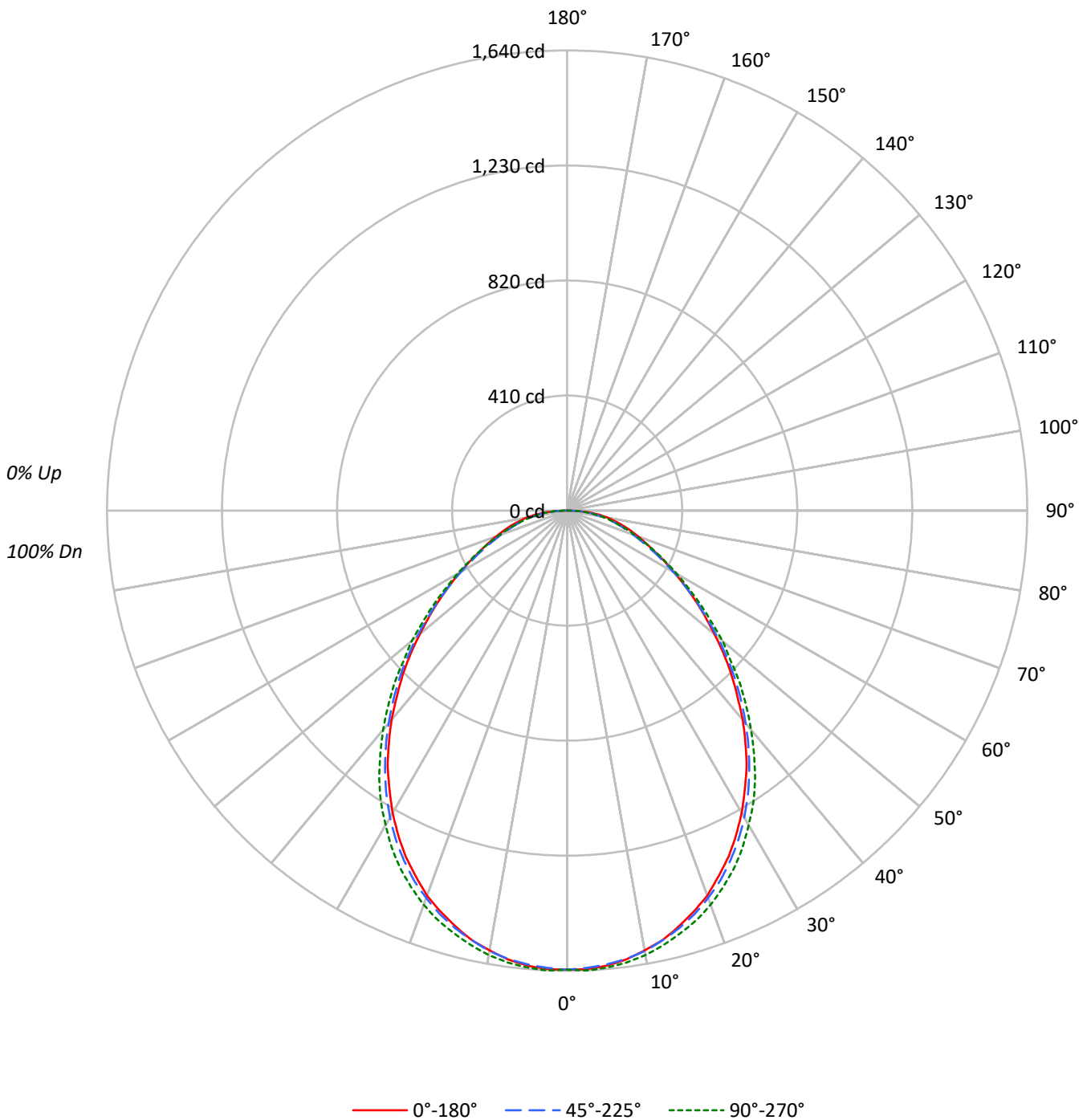
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5240	5240	5240
5°	5233	5219	5255
10°	5177	5183	5230
15°	5090	5109	5171
20°	4977	5008	5095
25°	4808	4863	4971
30°	4599	4668	4784
35°	4360	4423	4566
40°	4069	4136	4264
45°	3754	3827	3942
50°	3413	3477	3600
55°	3104	3128	3223
60°	2814	2793	2896
65°	2589	2518	2622
70°	2515	2331	2420
75°	2545	2282	2314
80°	2711	2335	2368
85°	2998	2499	2466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	4.2
10°-20°	435.0	11.7
20°-30°	634.1	17.1
30°-40°	708.8	19.1
40°-50°	651.9	17.6
50°-60°	505.1	13.6
60°-70°	338.6	9.1
70°-80°	202.6	5.5
80°-90°	75.7	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°	1223.4	33.0
0°-40°	1932.3	52.1
0°-60°	3089.2	83.4
0°-90°	3706.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3706.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1628	1624	1624	1630	1635	154
15°	1535	1537	1541	1553	1560	432
25°	1361	1364	1376	1396	1407	625
35°	1115	1117	1131	1153	1168	695
45°	829	831	845	858	870	638
55°	556	557	560	569	577	499
65°	342	339	332	336	346	344
75°	206	197	184	183	187	218
85°	82	82	68	64	67	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.2	1636.2	1636.2	1636.2	1636.2
2.5°	1635.4	1632.0	1631.1	1636.2	1640.5
5°	1627.8	1624.4	1623.5	1630.3	1634.6
7.5°	1613.3	1610.8	1611.6	1618.4	1624.4
10°	1592.0	1591.2	1593.8	1602.2	1608.2
12.5°	1568.2	1566.6	1569.1	1580.1	1586.1
15°	1535.1	1536.8	1541.0	1553.0	1559.8
17.5°	1498.6	1500.2	1507.9	1519.8	1530.8
20°	1460.3	1459.4	1469.6	1485.8	1495.1
22.5°	1410.1	1414.4	1426.3	1443.3	1452.6
25°	1360.8	1364.2	1376.1	1395.7	1406.8
27.5°	1303.9	1309.8	1322.6	1341.3	1354.0
30°	1243.6	1248.6	1262.2	1283.5	1293.7
32.5°	1178.1	1184.9	1199.4	1222.3	1235.0
35°	1115.2	1116.9	1131.4	1153.4	1167.9
37.5°	1043.8	1048.0	1061.6	1086.3	1094.0
40°	973.2	976.6	989.4	1009.8	1020.0
42.5°	897.6	903.6	917.2	932.4	944.4
45°	828.8	831.3	844.9	857.6	870.4
47.5°	756.5	759.0	770.9	784.6	789.6
50°	685.1	688.5	697.8	711.4	722.5
52.5°	618.8	620.5	624.8	640.0	645.2
55°	555.9	556.8	560.2	568.6	577.2
57.5°	496.4	495.6	494.7	502.4	510.0
60°	439.4	437.8	436.0	442.0	452.2
62.5°	389.3	387.6	380.8	387.6	396.1
65°	341.7	339.2	332.3	335.8	346.0
67.5°	304.3	299.2	288.2	292.4	300.0
70°	268.6	261.8	249.0	252.4	258.4
72.5°	237.2	227.0	215.9	216.8	222.7
75°	205.7	197.2	184.4	182.8	187.0
77.5°	176.0	169.2	155.5	153.0	156.4
80°	147.0	140.2	126.6	121.6	128.4
82.5°	115.6	113.0	97.8	94.4	96.9
85°	81.6	82.4	68.0	63.8	67.1
87.5°	41.6	43.4	34.8	34.0	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)