

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: P213770

Luminaire Tested: **22GR-LD5-40-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3514.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

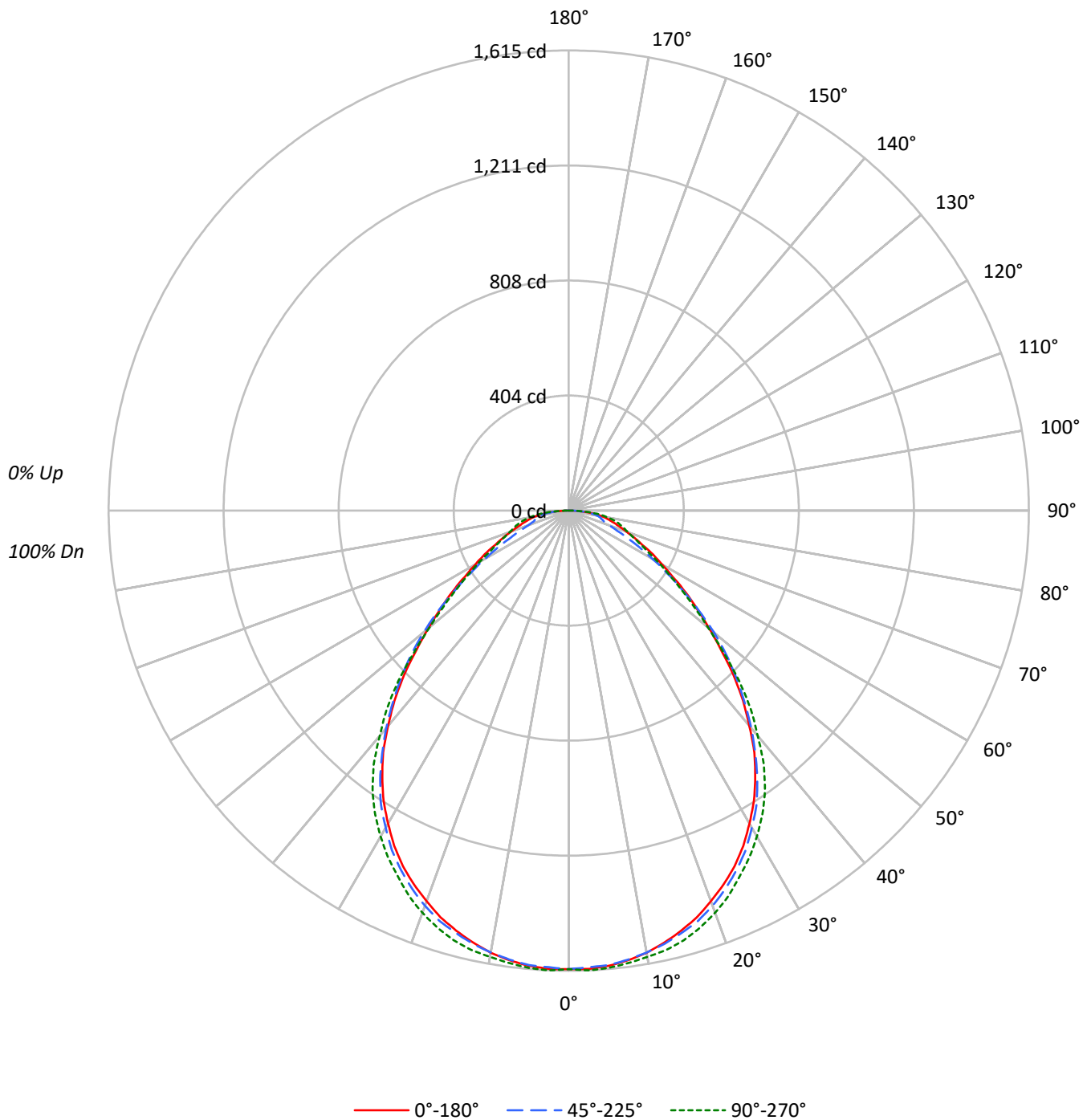
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	87	82	99	92	86	81	88	84	79		85	81	78		74
3	93	84	76	70	91	82	75	70	79	73	68		76	71	67		64
4	86	75	67	61	84	74	66	60	71	65	60		69	63	59		56
5	80	68	59	53	78	67	59	53	65	58	53		63	57	52		49
6	74	62	53	47	72	61	53	47	59	52	47		57	51	46		44
7	69	56	48	42	67	55	48	42	54	47	42		53	46	42		39
8	64	52	44	38	63	51	43	38	50	43	38		48	42	38		36
9	60	48	40	35	59	47	40	35	46	39	34		45	39	34		32
10	57	44	37	32	55	44	36	32	43	36	31		42	36	31		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5153	5153	5153
5°	5155	5147	5179
10°	5124	5121	5172
15°	5059	5086	5175
20°	4972	5030	5120
25°	4866	4921	5010
30°	4690	4753	4883
35°	4460	4511	4693
40°	4123	4167	4314
45°	3703	3770	3830
50°	3203	3316	3169
55°	2794	2721	2684
60°	2420	2178	2326
65°	2162	1710	2088
70°	2006	1417	2060
75°	2003	1497	2287
80°	2217	1887	2578
85°	2315	2043	2914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	4.3
10°-20°	433.7	12.3
20°-30°	641.5	18.3
30°-40°	723.9	20.6
40°-50°	638.1	18.2
50°-60°	437.7	12.5
60°-70°	258.3	7.4
70°-80°	161.2	4.6
80°-90°	67.2	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°	1227.5	34.9
0°-40°	1951.4	55.5
0°-60°	3027.2	86.1
0°-90°	3514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1604	1600	1601	1607	1611	152
15°	1526	1528	1534	1553	1561	430
25°	1377	1382	1393	1411	1418	632
35°	1141	1150	1154	1182	1200	711
45°	818	822	832	837	846	628
55°	500	488	487	471	481	449
65°	285	251	226	261	276	287
75°	162	146	121	169	185	174
85°	63	59	56	73	79	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.2	1609.2	1609.2	1609.2	1609.2
2.5°	1610.1	1606.0	1604.3	1610.9	1615.0
5°	1603.6	1600.3	1601.1	1606.8	1610.9
7.5°	1592.1	1589.6	1589.6	1597.8	1601.9
10°	1575.8	1574.9	1574.9	1584.7	1590.5
12.5°	1552.8	1553.7	1556.9	1570.0	1579.8
15°	1525.9	1527.5	1534.1	1552.8	1561.0
17.5°	1496.4	1496.4	1509.5	1524.3	1534.1
20°	1458.8	1461.2	1476.0	1492.4	1502.2
22.5°	1420.4	1424.5	1436.7	1455.6	1464.5
25°	1377.0	1381.9	1392.6	1410.6	1417.9
27.5°	1326.4	1332.9	1344.4	1357.4	1372.9
30°	1268.2	1278.1	1285.4	1303.4	1320.6
32.5°	1209.4	1218.4	1226.6	1245.4	1265.0
35°	1140.7	1150.5	1153.8	1181.6	1200.4
37.5°	1070.4	1074.5	1076.1	1103.9	1124.4
40°	986.2	994.3	996.8	1018.8	1032.0
42.5°	905.2	908.5	913.4	929.7	945.3
45°	817.7	821.8	832.4	837.4	845.6
47.5°	726.1	738.4	750.7	735.1	736.0
50°	642.8	652.6	665.6	636.1	636.1
52.5°	568.3	573.2	574.0	549.5	554.4
55°	500.4	488.1	487.4	471.0	480.8
57.5°	432.6	416.2	410.5	405.6	417.0
60°	377.8	348.4	340.1	347.5	363.1
62.5°	332.8	295.2	279.7	298.5	312.4
65°	285.3	251.0	225.7	260.8	275.5
67.5°	248.6	215.9	183.2	233.1	243.6
70°	214.2	188.9	151.3	211.8	220.0
72.5°	186.4	166.8	130.8	191.4	201.2
75°	161.9	145.5	121.0	169.2	184.8
77.5°	142.2	124.3	112.8	146.4	165.2
80°	120.2	102.3	102.3	122.6	139.8
82.5°	94.9	80.2	82.6	99.8	112.1
85°	63.0	58.9	55.6	72.8	79.3
87.5°	31.9	32.7	29.4	37.6	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)