

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: P272008

Luminaire Tested: **22CZ2-44-UNV-L950-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P272008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-33)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44-UNV-L950-CD1-U
Description: 2'X2' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

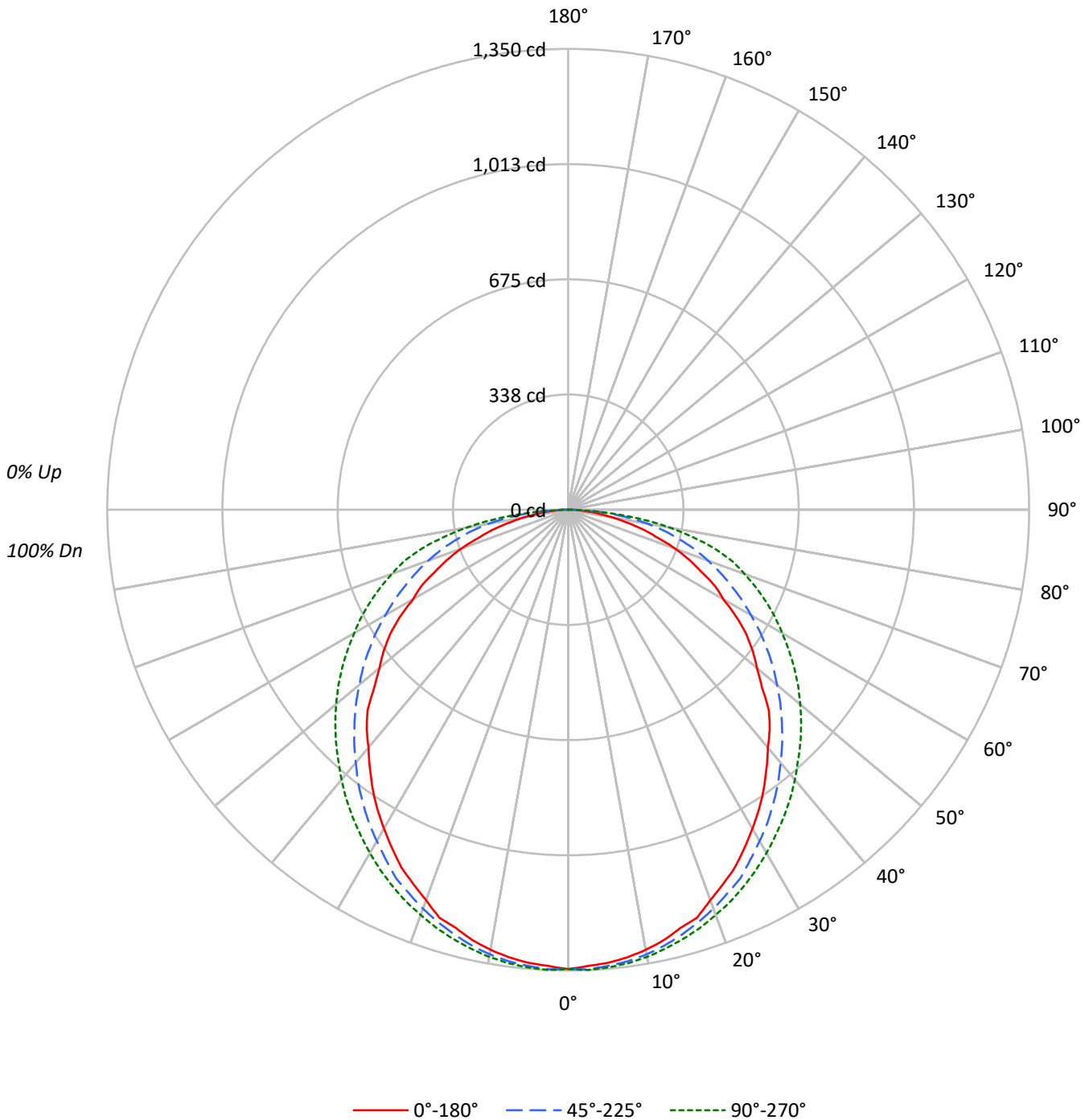
Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3621	3621	3621
5°	3599	3625	3635
10°	3577	3614	3635
15°	3535	3589	3626
20°	3485	3562	3617
25°	3431	3540	3614
30°	3352	3484	3609
35°	3279	3443	3614
40°	3196	3399	3628
45°	3163	3368	3660
50°	3022	3343	3713
55°	2990	3332	3792
60°	2821	3327	3895
65°	2738	3349	4071
70°	2628	3429	4319
75°	2396	3533	4651
80°	2053	3659	4700
85°	1661	3498	4029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.2
10°-20°	363.3	9.1
20°-30°	546.7	13.6
30°-40°	656.2	16.4
40°-50°	685.8	17.1
50°-60°	639.2	15.9
60°-70°	524.2	13.1
70°-80°	353.2	8.8
80°-90°	115.1	2.9
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°	1037.3	25.9
0°-40°	1693.5	42.2
0°-60°	3018.5	75.3
0°-90°	4011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1332	1336	1342	1344	1346	126
15°	1269	1277	1288	1300	1302	359
25°	1156	1163	1192	1209	1217	531
35°	998	1012	1048	1085	1100	624
45°	831	837	885	939	962	635
55°	637	649	710	778	808	565
65°	430	449	526	603	639	428
75°	230	255	340	417	447	242
85°	54	77	113	132	130	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1338.0	1341.9	1347.6	1349.6	1349.6
5°	1332.3	1336.1	1341.9	1343.8	1345.7
7.5°	1322.7	1326.5	1334.2	1338.0	1340.0
10°	1309.2	1313.1	1322.7	1328.4	1330.4
12.5°	1292.0	1295.8	1307.3	1315.0	1316.9
15°	1268.9	1276.6	1288.1	1299.7	1301.6
17.5°	1253.6	1251.7	1267.0	1280.5	1284.3
20°	1217.1	1226.7	1244.0	1259.3	1263.2
22.5°	1186.4	1194.1	1217.1	1234.4	1242.1
25°	1155.7	1163.4	1192.1	1209.4	1217.1
27.5°	1117.3	1128.8	1155.7	1180.6	1190.2
30°	1078.9	1090.4	1121.1	1149.9	1161.4
32.5°	1040.5	1053.9	1086.6	1117.3	1130.7
35°	998.3	1011.7	1048.2	1084.6	1100.0
37.5°	954.1	971.4	1009.8	1050.1	1067.4
40°	909.9	927.2	967.5	1013.6	1032.8
42.5°	873.5	881.2	927.2	977.1	996.3
45°	831.2	837.0	885.0	938.7	961.8
47.5°	769.8	790.9	842.8	902.3	925.3
50°	721.8	744.9	798.6	862.0	886.9
52.5°	681.5	696.9	756.4	819.7	848.5
55°	637.3	648.9	710.3	777.5	808.2
57.5°	583.6	604.7	666.1	735.3	766.0
60°	524.1	551.0	618.2	693.0	723.7
62.5°	485.7	501.0	574.0	648.9	683.4
65°	430.0	449.2	526.0	602.8	639.3
67.5°	383.9	403.1	481.9	558.6	595.1
70°	334.0	353.2	435.8	512.6	549.0
72.5°	276.4	303.3	389.7	466.5	504.9
75°	230.4	255.3	339.8	416.6	447.3
77.5°	178.5	211.2	289.9	353.2	376.3
80°	132.5	165.1	236.1	282.2	303.3
82.5°	90.2	122.9	176.6	211.2	222.7
85°	53.8	76.8	113.3	132.5	130.5
87.5°	25.0	32.6	46.1	46.1	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)