

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: P388318

Luminaire Tested: **22CZ2-44VHE-UNV-L930-CD1-SWPD1-U**

Issue Date: 2/28/2020

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: P388318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-UNV-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3764.5 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

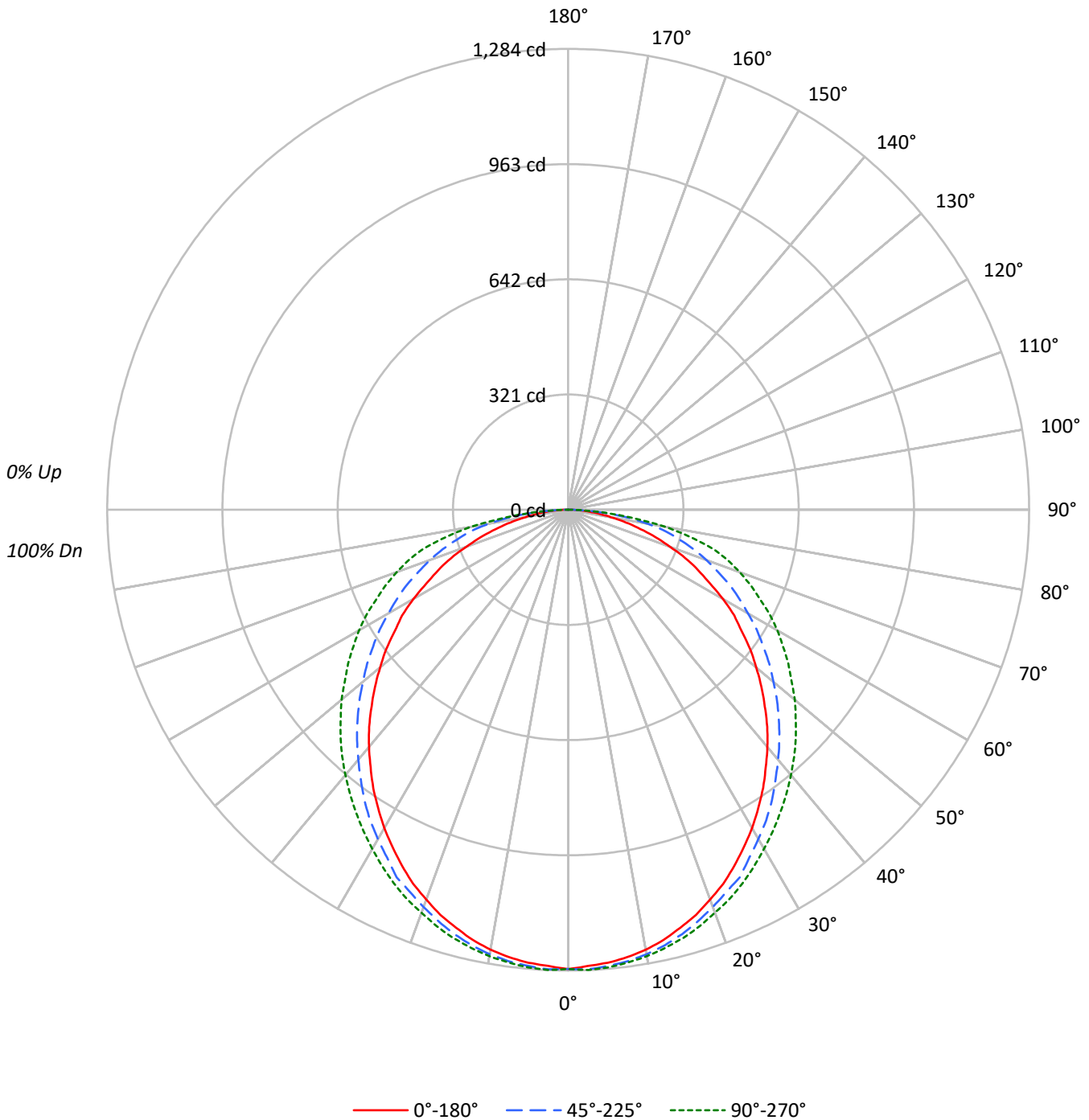
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3444	3444	3444
5°	3422	3448	3458
10°	3401	3437	3452
15°	3360	3411	3442
20°	3310	3374	3422
25°	3251	3355	3410
30°	3183	3292	3390
35°	3110	3250	3383
40°	3032	3195	3390
45°	2947	3158	3412
50°	2861	3125	3451
55°	2764	3111	3511
60°	2682	3110	3619
65°	2548	3161	3751
70°	2375	3221	3994
75°	2176	3332	4314
80°	1895	3473	4249
85°	1658	3088	3375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.2
10°-20°	344.8	9.2
20°-30°	517.6	13.7
30°-40°	618.5	16.4
40°-50°	643.1	17.1
50°-60°	596.1	15.8
60°-70°	488.9	13.0
70°-80°	330.5	8.8
80°-90°	103.9	2.8
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°	983.5	26.1
0°-40°	1601.9	42.6
0°-60°	2841.2	75.5
0°-90°	3764.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3764.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1267	1269	1276	1278	1280	120
15°	1206	1212	1224	1232	1236	340
25°	1095	1104	1130	1143	1148	504
35°	947	960	989	1019	1030	592
45°	774	789	830	878	897	598
55°	589	608	663	722	748	529
65°	400	422	496	561	589	395
75°	209	244	320	385	415	222
85°	54	74	100	111	109	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1280.0	1280.0	1280.0	1280.0	1280.0
2.5°	1272.6	1276.3	1281.9	1283.7	1283.7
5°	1267.0	1268.9	1276.3	1278.1	1280.0
7.5°	1257.8	1261.5	1268.9	1270.7	1272.6
10°	1244.8	1248.5	1257.8	1261.5	1263.3
12.5°	1228.1	1231.8	1243.0	1248.5	1250.4
15°	1205.9	1211.5	1224.4	1231.8	1235.5
17.5°	1183.7	1189.2	1202.2	1213.3	1217.0
20°	1155.9	1168.9	1178.1	1192.9	1194.8
22.5°	1128.1	1135.5	1152.2	1167.0	1174.4
25°	1094.8	1104.0	1130.0	1142.9	1148.5
27.5°	1059.6	1072.5	1092.9	1113.3	1120.7
30°	1024.4	1033.6	1059.6	1083.6	1091.1
32.5°	985.5	998.4	1026.2	1050.3	1061.4
35°	946.6	959.5	989.2	1018.8	1029.9
37.5°	904.0	918.8	948.4	983.6	998.4
40°	863.2	874.3	909.5	952.1	965.1
42.5°	820.6	833.6	870.6	916.9	931.8
45°	774.3	789.1	829.9	878.0	896.6
47.5°	729.8	744.7	789.1	837.3	859.5
50°	683.5	702.1	746.5	802.1	824.3
52.5°	639.1	655.7	705.8	763.2	783.6
55°	589.1	607.6	663.2	722.4	748.4
57.5°	548.3	561.3	622.4	683.5	709.5
60°	498.3	515.0	577.9	642.8	672.4
62.5°	444.6	472.4	537.2	603.9	633.5
65°	400.1	422.3	496.4	561.3	589.1
67.5°	353.8	377.9	450.1	518.7	550.2
70°	301.9	333.4	409.4	477.9	507.6
72.5°	255.6	289.0	366.8	433.5	464.9
75°	209.3	244.5	320.5	385.3	414.9
77.5°	164.9	203.8	277.9	327.9	346.4
80°	122.3	159.3	224.1	259.3	274.2
82.5°	85.2	116.7	164.9	183.4	187.1
85°	53.7	74.1	100.0	111.1	109.3
87.5°	24.1	29.6	37.0	40.8	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)