

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: P230551

Luminaire Tested: **22CZ-LD5-39-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3774.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

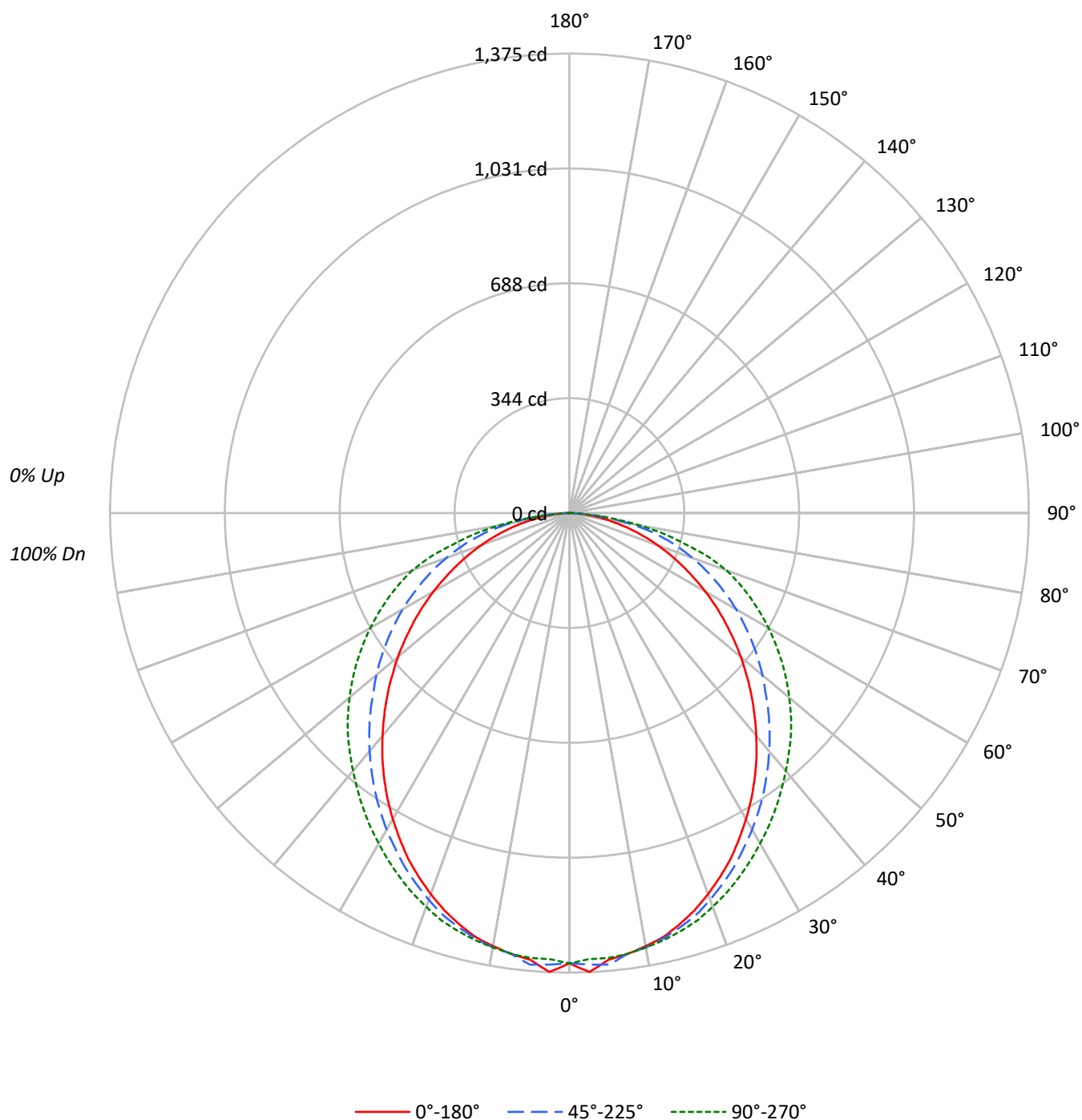
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	108	104	99	95	106	101	97	94		97	94	91			93	90	88			89
2	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	68	62			71	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	70	56	47	41	68	55	47	40		53	46	40			52	45	40			50
7	65	51	42	36	63	50	42	36		48	41	35			47	40	35			46
8	60	46	38	32	58	46	38	32		44	37	32			43	36	31			42
9	56	43	34	29	55	42	34	29		41	34	29			40	33	28			39
10	53	39	31	26	51	39	31	26		38	31	26			37	30	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3625	3625	3625
5°	3624	3663	3609
10°	3596	3606	3606
15°	3548	3574	3604
20°	3474	3526	3590
25°	3389	3466	3569
30°	3285	3399	3547
35°	3177	3334	3539
40°	3056	3269	3539
45°	2933	3206	3569
50°	2804	3158	3596
55°	2669	3126	3642
60°	2528	3102	3704
65°	2372	3085	3798
70°	2209	3076	3928
75°	2004	3072	3721
80°	1734	2844	3299
85°	1473	2152	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.4
10°-20°	361.9	9.6
20°-30°	538.4	14.3
30°-40°	636.7	16.9
40°-50°	654.4	17.3
50°-60°	598.0	15.8
60°-70°	478.4	12.7
70°-80°	300.2	8.0
80°-90°	78.2	2.1
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°	1028.0	27.2
0°-40°	1664.7	44.1
0°-60°	2917.2	77.3
0°-90°	3774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1342	1342	1356	1347	1336	128
15°	1274	1276	1283	1290	1294	359
25°	1142	1149	1167	1187	1202	525
35°	967	980	1015	1053	1077	604
45°	771	791	842	905	938	594
55°	569	596	666	740	776	509
65°	373	406	484	558	596	370
75°	193	229	296	340	358	205
85°	48	61	70	68	68	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1374.6	1369.1	1352.6	1341.6	1336.1
5°	1341.6	1341.6	1356.2	1347.1	1336.1
7.5°	1330.6	1330.6	1330.6	1358.1	1330.6
10°	1315.9	1317.7	1319.5	1330.6	1319.5
12.5°	1299.4	1299.4	1303.0	1306.7	1308.5
15°	1273.7	1275.5	1282.8	1290.2	1293.8
17.5°	1246.1	1251.6	1260.8	1270.0	1277.3
20°	1213.1	1220.4	1231.4	1246.1	1253.5
22.5°	1178.2	1185.6	1200.2	1216.8	1229.6
25°	1141.5	1148.9	1167.2	1187.4	1202.1
27.5°	1099.3	1108.5	1130.5	1158.0	1172.7
30°	1057.1	1068.1	1093.8	1125.0	1141.5
32.5°	1013.1	1025.9	1055.3	1090.1	1110.3
35°	967.2	980.0	1014.9	1053.4	1077.3
37.5°	919.5	934.1	972.7	1016.7	1042.4
40°	869.9	886.4	930.5	978.2	1007.5
42.5°	820.4	838.7	886.4	943.3	972.7
45°	770.8	791.0	842.4	904.8	937.8
47.5°	719.4	743.3	796.5	866.2	899.3
50°	669.9	693.7	754.3	825.9	858.9
52.5°	618.5	646.0	710.2	783.6	818.5
55°	568.9	596.5	666.2	739.6	776.3
57.5°	519.4	546.9	620.3	695.6	732.3
60°	469.8	499.2	576.3	649.7	688.2
62.5°	420.3	451.5	530.4	605.6	642.3
65°	372.6	405.6	484.5	557.9	596.5
67.5°	326.7	361.5	438.6	510.2	548.7
70°	280.8	315.7	390.9	460.6	499.2
72.5°	236.7	271.6	345.0	407.4	436.8
75°	192.7	229.4	295.5	339.5	357.9
77.5°	150.5	187.2	244.1	273.5	293.6
80°	111.9	143.1	183.5	205.5	212.9
82.5°	77.1	102.8	128.5	134.0	137.6
85°	47.7	60.6	69.7	67.9	67.9
87.5°	22.0	23.9	20.2	14.7	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)