

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: P#

Luminaire Tested: **22CZ-LD5-39SE-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-LD5-39SE-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3727.7 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

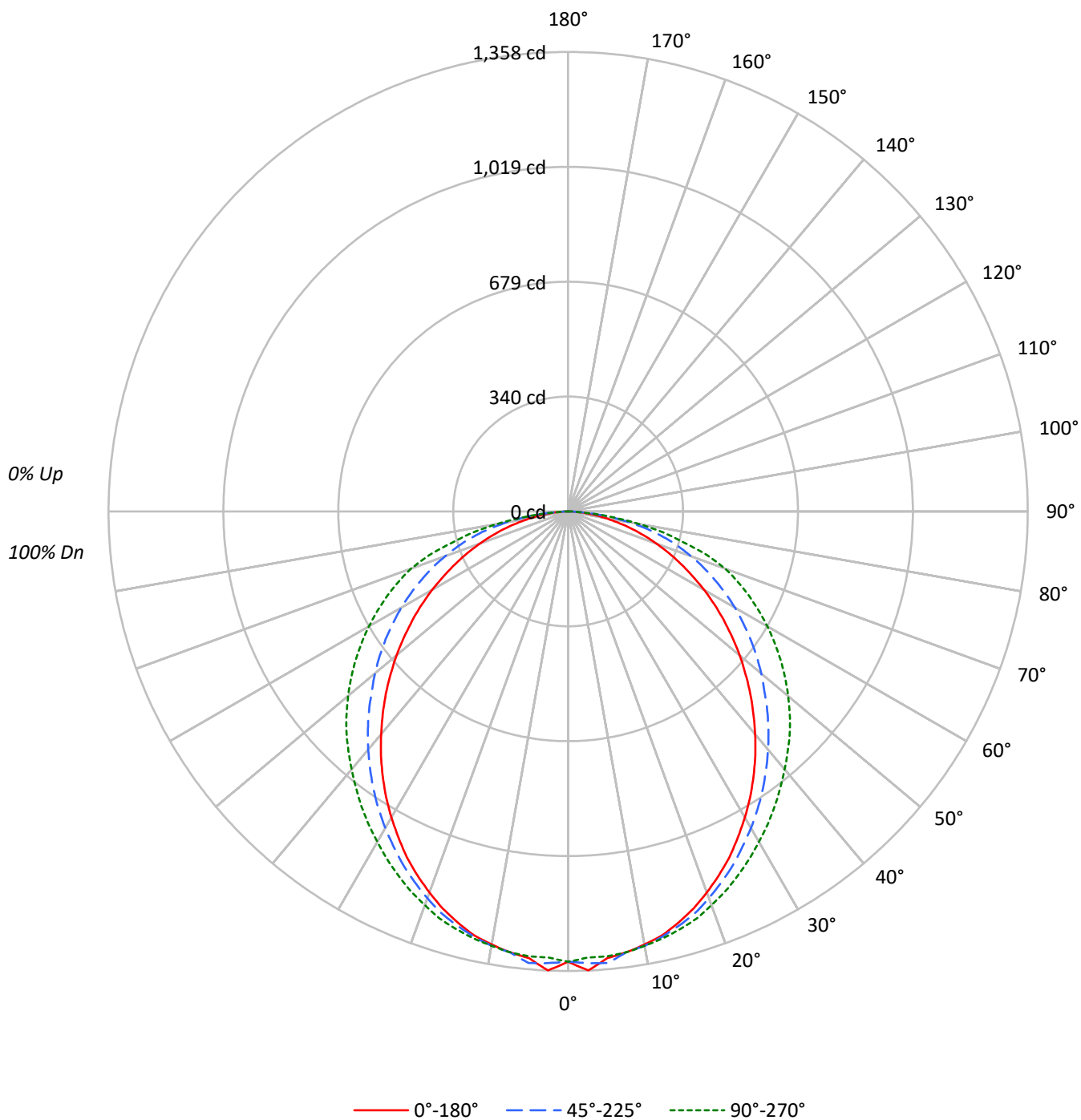
Input Watts (W): 34.88
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43		
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3581	3581	3581
5°	3564	3596	3549
10°	3520	3517	3530
15°	3458	3464	3513
20°	3370	3396	3482
25°	3272	3314	3445
30°	3153	3225	3405
35°	3032	3138	3377
40°	2897	3047	3355
45°	2759	2957	3357
50°	2614	2876	3352
55°	2460	2804	3357
60°	2299	2729	3367
65°	2116	2646	3388
70°	1918	2544	3410
75°	1668	2400	3097
80°	1335	2005	2538
85°	925	1176	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.4
10°-20°	357.5	9.6
20°-30°	531.8	14.3
30°-40°	628.9	16.9
40°-50°	646.4	17.3
50°-60°	590.7	15.8
60°-70°	472.5	12.7
70°-80°	296.5	8.0
80°-90°	77.2	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°	1015.4	27.2
0°-40°	1644.3	44.1
0°-60°	2881.4	77.3
0°-90°	3727.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3727.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1325	1325	1340	1331	1320	126
15°	1258	1260	1267	1274	1278	354
25°	1128	1135	1153	1173	1187	518
35°	955	968	1002	1040	1064	597
45°	761	781	832	894	926	587
55°	562	589	658	731	767	503
65°	368	401	478	551	589	365
75°	190	227	292	335	354	202
85°	47	60	69	67	67	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.6	1330.6	1330.6	1330.6	1330.6
2.5°	1357.7	1352.3	1336.0	1325.1	1319.6
5°	1325.1	1325.1	1339.6	1330.6	1319.6
7.5°	1314.2	1314.2	1314.2	1341.4	1314.2
10°	1299.7	1301.5	1303.3	1314.2	1303.3
12.5°	1283.4	1283.4	1287.1	1290.7	1292.5
15°	1258.0	1259.9	1267.1	1274.3	1277.9
17.5°	1230.8	1236.2	1245.4	1254.4	1261.7
20°	1198.2	1205.5	1216.4	1230.8	1238.1
22.5°	1163.8	1171.1	1185.5	1201.8	1214.5
25°	1127.6	1134.8	1152.9	1172.9	1187.3
27.5°	1085.8	1094.9	1116.6	1143.8	1158.3
30°	1044.1	1055.0	1080.3	1111.2	1127.6
32.5°	1000.6	1013.3	1042.3	1076.7	1096.7
35°	955.3	968.0	1002.4	1040.5	1064.1
37.5°	908.2	922.6	960.7	1004.2	1029.6
40°	859.3	875.5	919.0	966.2	995.2
42.5°	810.3	828.4	875.5	931.8	960.7
45°	761.3	781.3	832.0	893.7	926.3
47.5°	710.6	734.2	786.7	855.6	888.2
50°	661.7	685.2	745.0	815.8	848.4
52.5°	610.8	638.1	701.5	774.1	808.4
55°	561.9	589.1	658.1	730.6	766.7
57.5°	513.0	540.2	612.7	687.0	723.2
60°	464.1	493.0	569.2	641.7	679.7
62.5°	415.2	445.9	523.9	598.2	634.4
65°	368.0	400.6	478.5	551.1	589.1
67.5°	322.6	357.1	433.2	504.0	542.0
70°	277.3	311.8	386.1	455.0	493.0
72.5°	233.8	268.3	340.8	402.4	431.4
75°	190.4	226.6	291.8	335.3	353.5
77.5°	148.7	184.9	241.1	270.1	290.0
80°	110.6	141.4	181.3	203.0	210.2
82.5°	76.1	101.6	126.9	132.3	135.9
85°	47.1	59.8	68.9	67.1	67.1
87.5°	21.8	23.6	20.0	14.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)