

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-L840-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-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039.2 lumens
Efficiency: N/A
Efficacy: 115.8 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

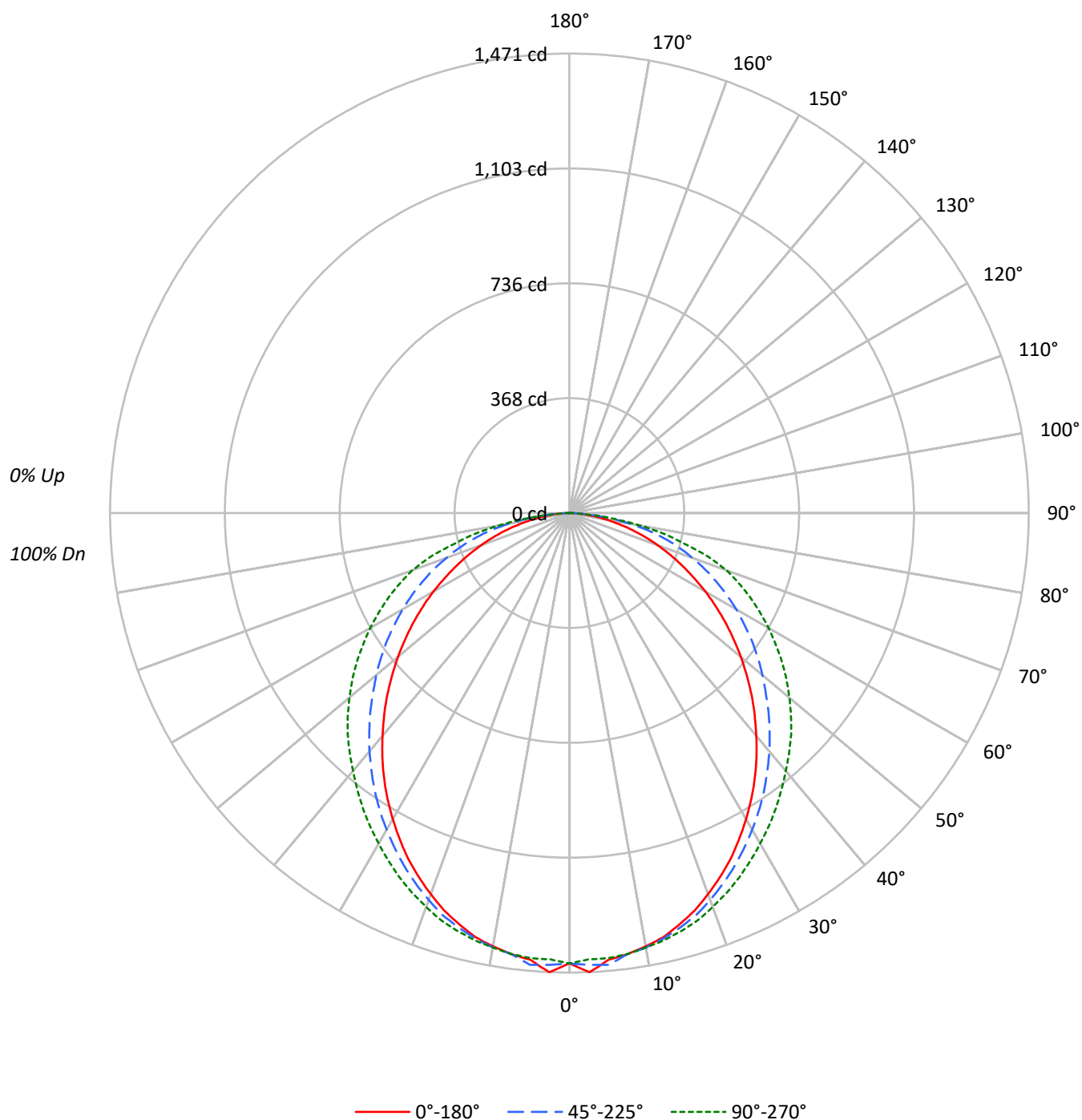
Input Watts (W): 34.88
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3880	3880	3880
5°	3862	3897	3846
10°	3815	3812	3825
15°	3748	3754	3807
20°	3651	3680	3773
25°	3545	3591	3733
30°	3417	3495	3690
35°	3285	3400	3660
40°	3139	3302	3635
45°	2990	3205	3638
50°	2832	3117	3632
55°	2666	3038	3638
60°	2490	2957	3648
65°	2293	2867	3671
70°	2079	2756	3696
75°	1807	2601	3356
80°	1446	2172	2750
85°	1004	1274	1428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.4
10°-20°	387.3	9.6
20°-30°	576.2	14.3
30°-40°	681.5	16.9
40°-50°	700.4	17.3
50°-60°	640.0	15.8
60°-70°	512.0	12.7
70°-80°	321.3	8.0
80°-90°	83.7	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°	1100.3	27.2
0°-40°	1781.7	44.1
0°-60°	3122.2	77.3
0°-90°	4039.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4039.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1436	1436	1452	1442	1430	137
15°	1363	1365	1373	1381	1385	384
25°	1222	1230	1249	1271	1287	562
35°	1035	1049	1086	1128	1153	647
45°	825	847	902	968	1004	636
55°	609	638	713	792	831	545
65°	399	434	519	597	638	396
75°	206	246	316	363	383	219
85°	51	65	75	73	73	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.7	1441.7	1441.7	1441.7	1441.7
2.5°	1471.2	1465.3	1447.6	1435.8	1429.9
5°	1435.8	1435.8	1451.5	1441.7	1429.9
7.5°	1424.0	1424.0	1424.0	1453.5	1424.0
10°	1408.3	1410.3	1412.3	1424.0	1412.3
12.5°	1390.7	1390.7	1394.6	1398.5	1400.5
15°	1363.2	1365.1	1373.0	1380.8	1384.8
17.5°	1333.7	1339.6	1349.4	1359.2	1367.1
20°	1298.3	1306.2	1318.0	1333.7	1341.6
22.5°	1261.0	1268.9	1284.6	1302.3	1316.0
25°	1221.7	1229.6	1249.2	1270.8	1286.6
27.5°	1176.6	1186.4	1210.0	1239.4	1255.1
30°	1131.4	1143.2	1170.7	1204.1	1221.7
32.5°	1084.2	1098.0	1129.4	1166.7	1188.3
35°	1035.1	1048.9	1086.2	1127.5	1153.0
37.5°	984.1	999.8	1041.0	1088.2	1115.7
40°	931.0	948.7	995.9	1046.9	1078.3
42.5°	878.0	897.6	948.7	1009.6	1041.0
45°	825.0	846.6	901.6	968.4	1003.7
47.5°	770.0	795.5	852.5	927.1	962.5
50°	716.9	742.5	807.3	883.9	919.2
52.5°	661.9	691.4	760.1	838.7	876.0
55°	608.9	638.4	713.0	791.6	830.9
57.5°	555.9	585.3	663.9	744.4	783.7
60°	502.8	534.3	616.8	695.3	736.6
62.5°	449.8	483.2	567.7	648.2	687.5
65°	398.7	434.1	518.6	597.1	638.4
67.5°	349.6	386.9	469.4	546.0	587.3
70°	300.5	337.8	418.4	493.0	534.3
72.5°	253.4	290.7	369.3	436.1	467.5
75°	206.2	245.5	316.2	363.4	383.0
77.5°	161.1	200.3	261.2	292.7	314.3
80°	119.8	153.2	196.4	220.0	227.8
82.5°	82.5	110.0	137.5	143.4	147.3
85°	51.1	64.8	74.6	72.7	72.7
87.5°	23.6	25.5	21.6	15.7	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)