

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-LD5-39-UNV-L850-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-LD5-39-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

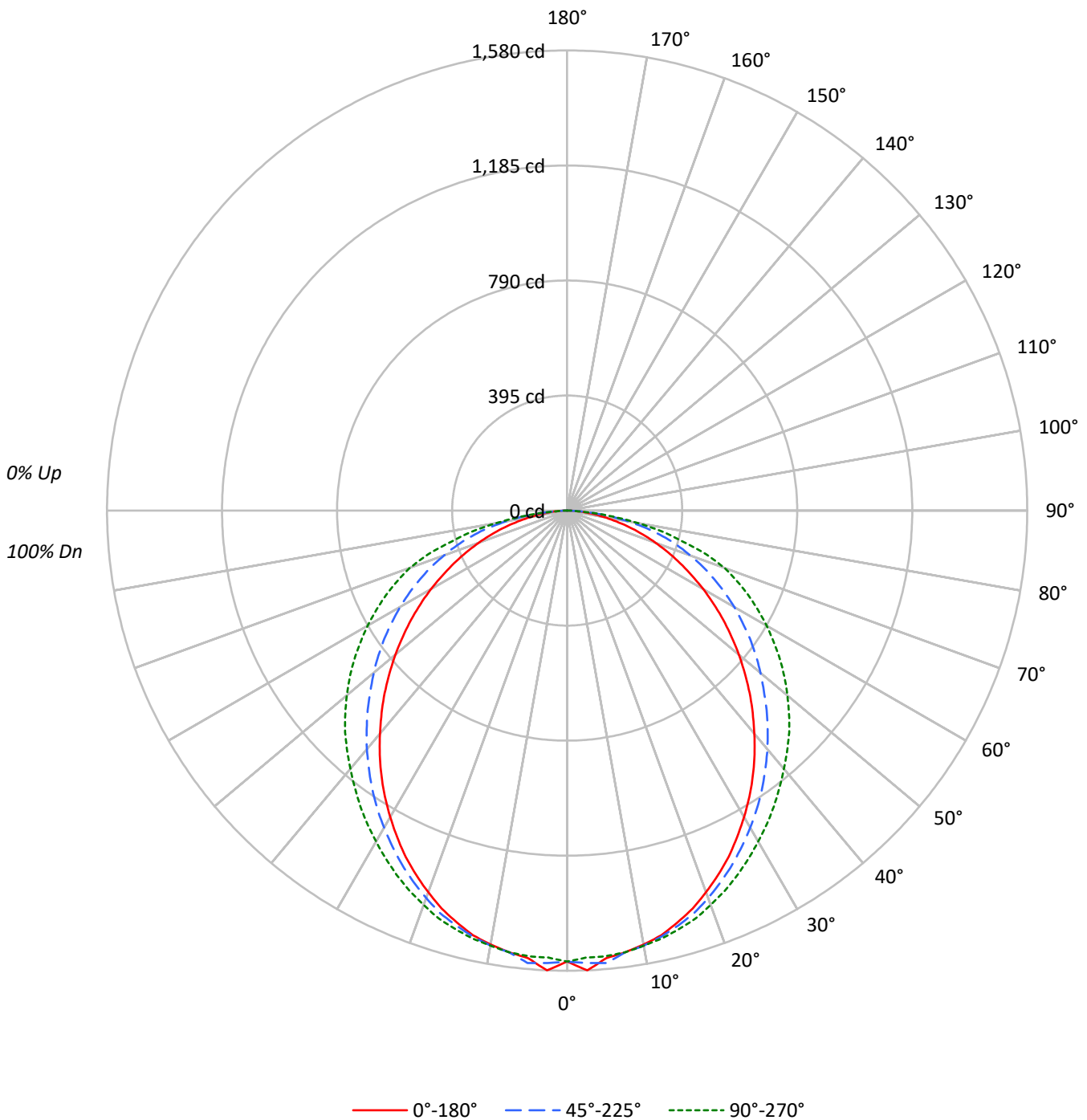
Lumens per Lamp: N/A
Luminaire Lumens: 4338.4 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	4167	4167	4167
5°	4148	4186	4131
10°	4097	4094	4109
15°	4025	4032	4089
20°	3922	3952	4053
25°	3807	3857	4009
30°	3670	3754	3963
35°	3529	3652	3931
40°	3371	3547	3905
45°	3212	3442	3907
50°	3042	3348	3901
55°	2864	3263	3908
60°	2675	3176	3918
65°	2463	3080	3943
70°	2233	2961	3969
75°	1941	2794	3605
80°	1554	2334	2954
85°	1079	1369	1534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.4
10°-20°	416.0	9.6
20°-30°	618.9	14.3
30°-40°	731.9	16.9
40°-50°	752.3	17.3
50°-60°	687.4	15.8
60°-70°	549.9	12.7
70°-80°	345.1	8.0
80°-90°	89.9	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°	1181.8	27.2
0°-40°	1913.7	44.1
0°-60°	3353.4	77.3
0°-90°	4338.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4338.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1542	1542	1559	1548	1536	147
15°	1464	1466	1475	1483	1487	412
25°	1312	1321	1342	1365	1382	603
35°	1112	1127	1167	1211	1238	695
45°	886	909	968	1040	1078	683
55°	654	686	766	850	892	585
65°	428	466	557	641	686	425
75°	222	264	340	390	411	235
85°	55	70	80	78	78	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.5	1548.5	1548.5	1548.5	1548.5
2.5°	1580.1	1573.8	1554.8	1542.2	1535.8
5°	1542.2	1542.2	1559.1	1548.5	1535.8
7.5°	1529.5	1529.5	1529.5	1561.2	1529.5
10°	1512.6	1514.7	1516.9	1529.5	1516.9
12.5°	1493.7	1493.7	1497.9	1502.1	1504.2
15°	1464.1	1466.2	1474.7	1483.1	1487.3
17.5°	1432.5	1438.8	1449.3	1459.9	1468.3
20°	1394.5	1402.9	1415.6	1432.5	1440.9
22.5°	1354.4	1362.9	1379.7	1398.7	1413.5
25°	1312.2	1320.7	1341.8	1365.0	1381.8
27.5°	1263.7	1274.2	1299.6	1331.2	1348.1
30°	1215.2	1227.8	1257.4	1293.2	1312.2
32.5°	1164.5	1179.3	1213.1	1253.1	1276.4
35°	1111.8	1126.6	1166.7	1211.0	1238.4
37.5°	1056.9	1073.8	1118.1	1168.8	1198.3
40°	1000.0	1019.0	1069.6	1124.5	1158.2
42.5°	943.0	964.1	1019.0	1084.4	1118.1
45°	886.1	909.3	968.3	1040.1	1078.0
47.5°	827.0	854.4	915.6	995.8	1033.7
50°	770.0	797.5	867.1	949.4	987.3
52.5°	711.0	742.6	816.4	900.8	940.9
55°	654.0	685.6	765.8	850.2	892.4
57.5°	597.0	628.7	713.1	799.6	841.8
60°	540.1	573.8	662.4	746.8	791.1
62.5°	483.1	519.0	609.7	696.2	738.4
65°	428.3	466.2	557.0	641.3	685.6
67.5°	375.5	415.6	504.2	586.5	630.8
70°	322.8	362.9	449.4	529.5	573.8
72.5°	272.1	312.2	396.6	468.3	502.1
75°	221.5	263.7	339.7	390.3	411.4
77.5°	173.0	215.2	280.6	314.3	337.5
80°	128.7	164.6	211.0	236.3	244.7
82.5°	88.6	118.1	147.7	154.0	158.2
85°	54.9	69.6	80.2	78.1	78.1
87.5°	25.3	27.4	23.2	16.9	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)