

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-LD5-44-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-LD5-44-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

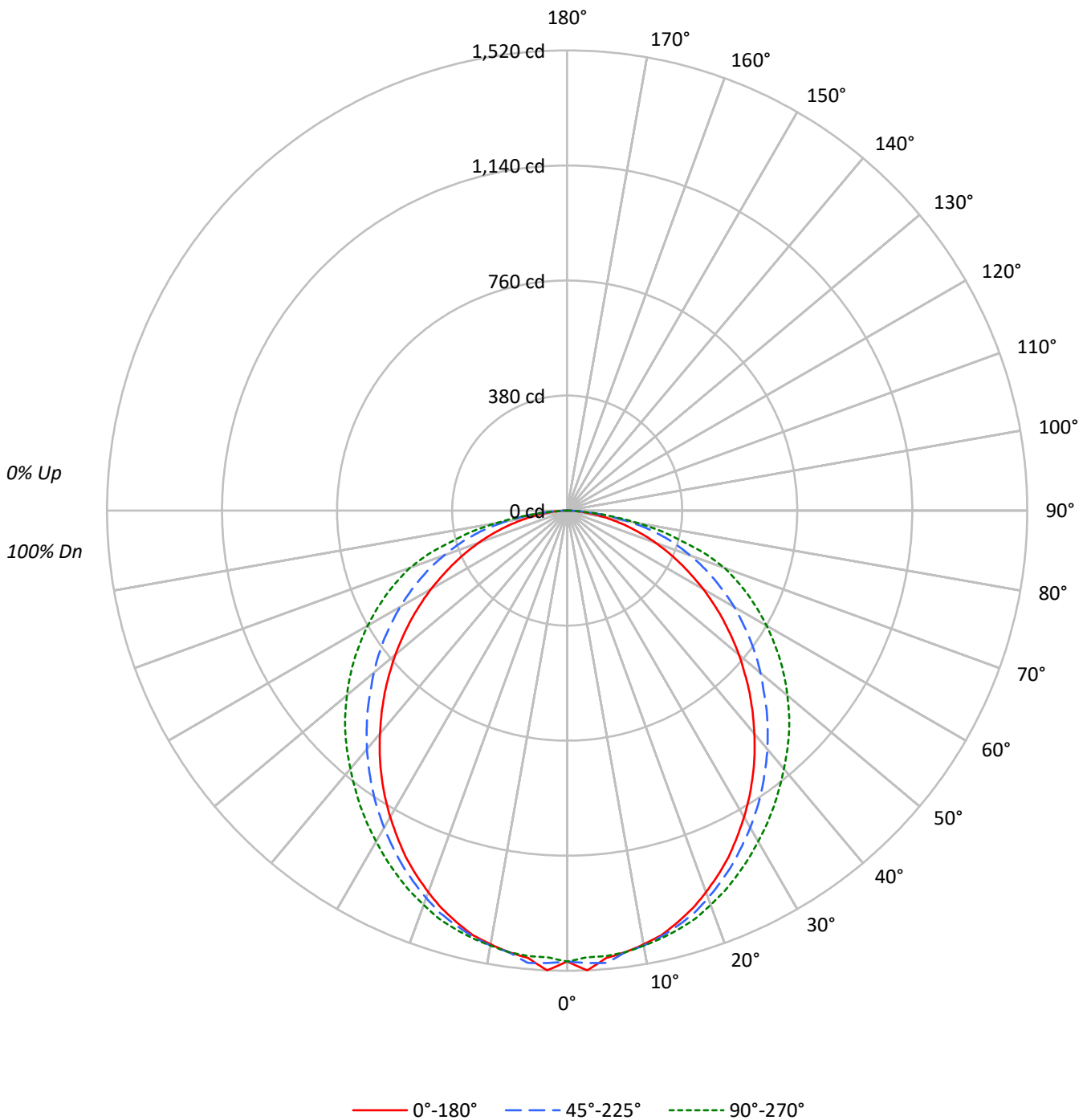
Lumens per Lamp: N/A
Luminaire Lumens: 4172.9 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.8
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°	4008	4008	4008
5°	3990	4026	3973
10°	3941	3938	3952
15°	3872	3878	3933
20°	3772	3801	3898
25°	3662	3710	3856
30°	3530	3611	3812
35°	3394	3512	3781
40°	3243	3412	3756
45°	3089	3310	3758
50°	2926	3220	3752
55°	2755	3139	3758
60°	2573	3055	3769
65°	2369	2962	3793
70°	2148	2847	3818
75°	1867	2688	3467
80°	1495	2244	2842
85°	1035	1316	1474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	3.4
10°-20°	400.2	9.6
20°-30°	595.3	14.3
30°-40°	704.0	16.9
40°-50°	723.6	17.3
50°-60°	661.2	15.8
60°-70°	529.0	12.7
70°-80°	332.0	8.0
80°-90°	86.4	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°	1136.7	27.2
0°-40°	1840.7	44.1
0°-60°	3225.6	77.3
0°-90°	4172.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4172.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1483	1483	1500	1490	1477	141
15°	1408	1410	1418	1426	1431	397
25°	1262	1270	1291	1313	1329	580
35°	1069	1084	1122	1165	1191	668
45°	852	875	931	1000	1037	657
55°	629	660	737	818	858	563
65°	412	448	536	617	660	409
75°	213	254	327	375	396	226
85°	53	67	77	75	75	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1519.9	1513.8	1495.6	1483.4	1477.2
5°	1483.4	1483.4	1499.6	1489.5	1477.2
7.5°	1471.2	1471.2	1471.2	1501.7	1471.2
10°	1454.9	1457.0	1459.0	1471.2	1459.0
12.5°	1436.7	1436.7	1440.8	1444.9	1446.8
15°	1408.3	1410.4	1418.4	1426.5	1430.6
17.5°	1377.9	1384.0	1394.1	1404.2	1412.4
20°	1341.3	1349.5	1361.6	1377.9	1386.0
22.5°	1302.7	1310.9	1327.1	1345.4	1359.6
25°	1262.2	1270.3	1290.6	1312.9	1329.1
27.5°	1215.5	1225.7	1250.0	1280.4	1296.7
30°	1168.9	1181.0	1209.4	1243.9	1262.2
32.5°	1120.1	1134.4	1166.8	1205.4	1227.7
35°	1069.4	1083.6	1122.1	1164.8	1191.2
37.5°	1016.7	1032.8	1075.5	1124.2	1152.6
40°	961.9	980.1	1028.8	1081.6	1114.1
42.5°	907.1	927.4	980.1	1043.0	1075.5
45°	852.2	874.6	931.4	1000.4	1036.9
47.5°	795.4	821.8	880.6	957.8	994.4
50°	740.7	767.0	834.0	913.1	949.7
52.5°	683.8	714.3	785.4	866.5	905.1
55°	629.1	659.5	736.6	817.8	858.3
57.5°	574.3	604.7	685.9	769.1	809.7
60°	519.5	551.9	637.2	718.4	760.9
62.5°	464.7	499.2	586.4	669.7	710.2
65°	411.9	448.5	535.7	616.9	659.5
67.5°	361.2	399.8	485.0	564.1	606.8
70°	310.5	349.0	432.2	509.3	551.9
72.5°	261.8	300.3	381.5	450.5	483.0
75°	213.1	253.6	326.7	375.4	395.7
77.5°	166.4	207.0	269.9	302.4	324.7
80°	123.8	158.3	202.9	227.2	235.4
82.5°	85.2	113.6	142.0	148.1	152.2
85°	52.7	67.0	77.1	75.0	75.0
87.5°	24.3	26.4	22.3	16.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)