

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-L835-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-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

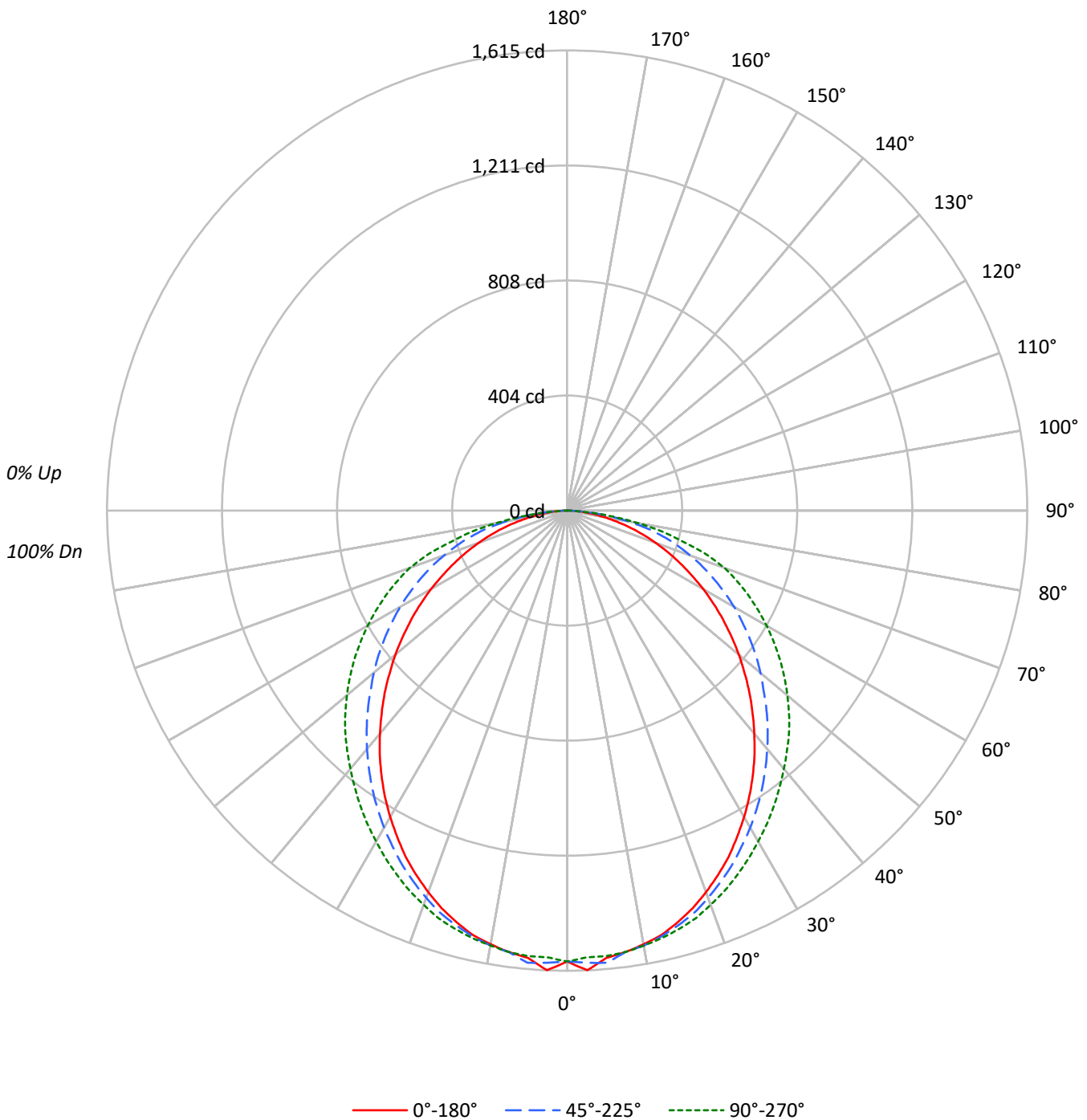
Lumens per Lamp: N/A
Luminaire Lumens: 4433.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (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	0
RW	70	50	30	10	70	50	30	10	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				100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69				69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43				43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33				33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4258	4258	4258
5°	4238	4277	4221
10°	4186	4183	4198
15°	4113	4120	4178
20°	4008	4038	4141
25°	3890	3941	4097
30°	3750	3836	4049
35°	3606	3731	4016
40°	3445	3624	3990
45°	3282	3517	3993
50°	3109	3421	3986
55°	2926	3334	3993
60°	2734	3246	4004
65°	2517	3147	4029
70°	2281	3025	4056
75°	1983	2855	3684
80°	1588	2385	3020
85°	1100	1398	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	3.4
10°-20°	425.1	9.6
20°-30°	632.4	14.3
30°-40°	747.9	16.9
40°-50°	768.7	17.3
50°-60°	702.4	15.8
60°-70°	561.9	12.7
70°-80°	352.7	8.0
80°-90°	91.8	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°	1207.5	27.2
0°-40°	1955.4	44.1
0°-60°	3426.6	77.3
0°-90°	4433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1576	1576	1593	1582	1569	150
15°	1496	1498	1507	1516	1520	421
25°	1341	1350	1371	1395	1412	617
35°	1136	1151	1192	1237	1265	710
45°	905	929	990	1063	1102	698
55°	668	701	782	869	912	598
65°	438	476	569	655	701	434
75°	226	270	347	399	420	240
85°	56	71	82	80	80	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582.3	1582.3	1582.3	1582.3	1582.3
2.5°	1614.6	1608.2	1588.8	1575.8	1569.4
5°	1575.8	1575.8	1593.1	1582.3	1569.4
7.5°	1562.9	1562.9	1562.9	1595.2	1562.9
10°	1545.6	1547.8	1550.0	1562.9	1550.0
12.5°	1526.2	1526.2	1530.6	1534.9	1537.0
15°	1496.1	1498.2	1506.8	1515.5	1519.8
17.5°	1463.7	1470.2	1481.0	1491.7	1500.4
20°	1424.9	1433.5	1446.5	1463.7	1472.3
22.5°	1384.0	1392.6	1409.8	1429.2	1444.3
25°	1340.8	1349.5	1371.0	1394.7	1412.0
27.5°	1291.3	1302.0	1327.9	1360.2	1377.5
30°	1241.7	1254.6	1284.8	1321.4	1340.8
32.5°	1189.9	1205.0	1239.5	1280.5	1304.2
35°	1136.1	1151.1	1192.1	1237.4	1265.4
37.5°	1080.0	1097.3	1142.5	1194.3	1224.4
40°	1021.8	1041.2	1092.9	1149.0	1183.5
42.5°	963.6	985.2	1041.2	1108.0	1142.5
45°	905.4	929.1	989.5	1062.8	1101.6
47.5°	845.0	873.1	935.6	1017.5	1056.3
50°	786.8	814.9	886.0	970.1	1008.9
52.5°	726.5	758.8	834.3	920.5	961.4
55°	668.3	700.6	782.5	868.7	911.9
57.5°	610.1	642.4	728.6	817.0	860.1
60°	551.9	586.4	676.9	763.1	808.4
62.5°	493.7	530.3	623.0	711.4	754.5
65°	437.6	476.4	569.1	655.3	700.6
67.5°	383.7	424.7	515.2	599.3	644.6
70°	329.8	370.8	459.2	541.1	586.4
72.5°	278.1	319.0	405.3	478.6	513.1
75°	226.3	269.5	347.1	398.8	420.4
77.5°	176.8	219.9	286.7	321.2	344.9
80°	131.5	168.1	215.6	241.4	250.1
82.5°	90.5	120.7	150.9	157.4	161.7
85°	56.0	71.1	81.9	79.8	79.8
87.5°	25.9	28.0	23.7	17.2	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)