

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-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-LD5-44-UNV-L850-CD1-U  
Description: CRUZE 2x2 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

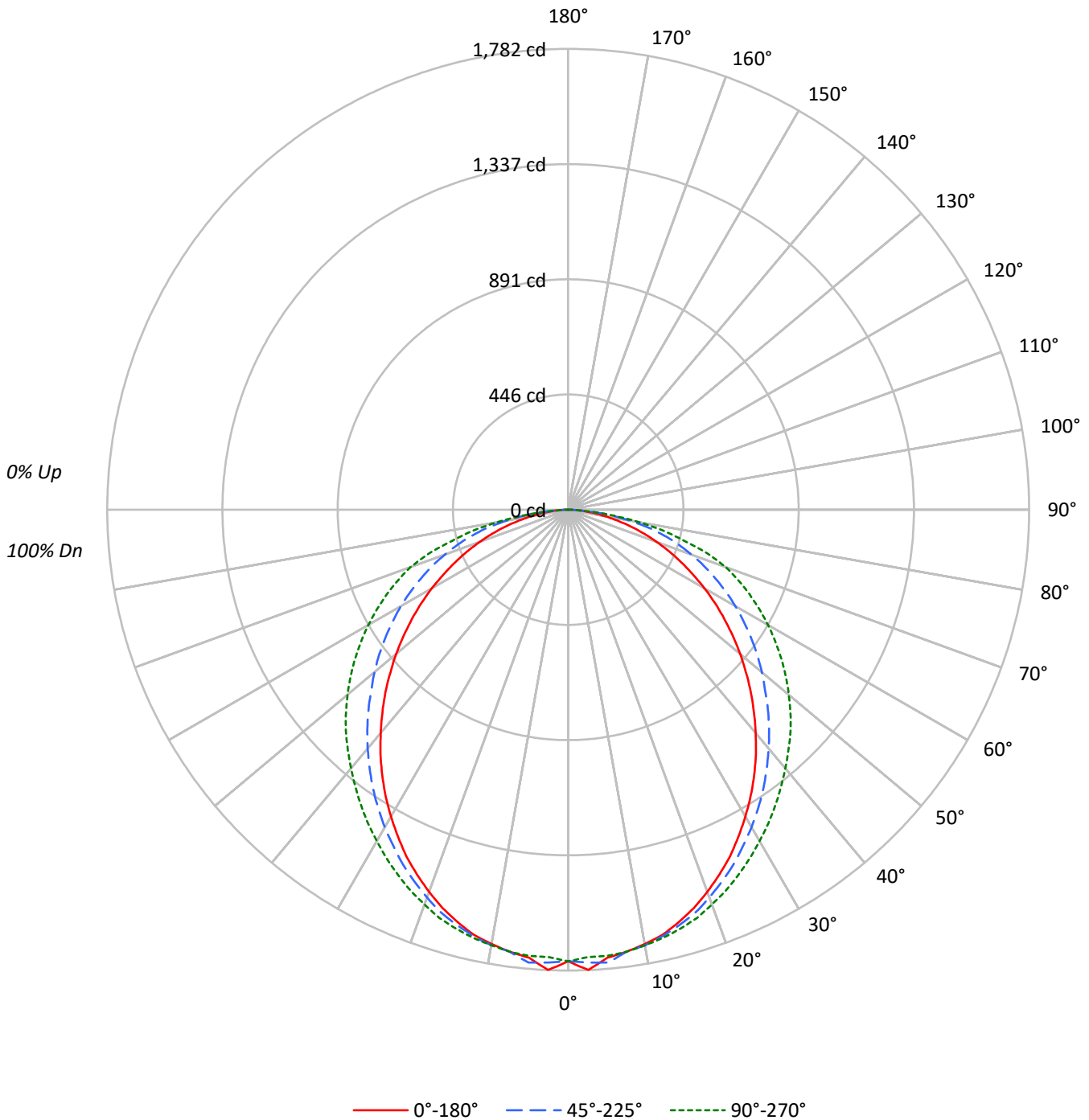
Lumens per Lamp: N/A  
Luminaire Lumens: 4891.1 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

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	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°	4698	4698	4698
5°	4676	4719	4657
10°	4619	4615	4632
15°	4538	4546	4610
20°	4422	4456	4569
25°	4293	4348	4520
30°	4138	4232	4468
35°	3979	4117	4431
40°	3801	3999	4402
45°	3621	3880	4405
50°	3430	3775	4398
55°	3229	3679	4406
60°	3016	3581	4418
65°	2776	3472	4445
70°	2517	3337	4475
75°	2188	3150	4064
80°	1752	2630	3331
85°	1214	1544	1729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.6	3.4
10°-20°	469.0	9.6
20°-30°	697.7	14.3
30°-40°	825.2	16.9
40°-50°	848.2	17.3
50°-60°	775.0	15.8
60°-70°	620.0	12.7
70°-80°	389.1	8.0
80°-90°	101.3	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°	1332.3	27.2
0°-40°	2157.5	44.1
0°-60°	3780.7	77.3
0°-90°	4891.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4891.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1739	1739	1758	1746	1732	165
15°	1651	1653	1663	1672	1677	465
25°	1479	1489	1513	1539	1558	680
35°	1254	1270	1315	1365	1396	783
45°	999	1025	1092	1173	1215	770
55°	737	773	863	958	1006	660
65°	483	526	628	723	773	479
75°	250	297	383	440	464	265
85°	62	78	90	88	88	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1745.8	1745.8	1745.8	1745.8	1745.8
2.5°	1781.5	1774.3	1752.9	1738.7	1731.5
5°	1738.7	1738.7	1757.7	1745.8	1731.5
7.5°	1724.4	1724.4	1724.4	1760.1	1724.4
10°	1705.4	1707.8	1710.1	1724.4	1710.1
12.5°	1684.0	1684.0	1688.7	1693.5	1695.9
15°	1650.7	1653.0	1662.6	1672.1	1676.8
17.5°	1615.0	1622.1	1634.0	1645.9	1655.4
20°	1572.2	1581.7	1596.0	1615.0	1624.5
22.5°	1527.0	1536.5	1555.5	1576.9	1593.6
25°	1479.4	1488.9	1512.7	1538.9	1557.9
27.5°	1424.7	1436.6	1465.1	1500.8	1519.9
30°	1370.0	1384.3	1417.6	1458.0	1479.4
32.5°	1312.9	1329.6	1367.6	1412.8	1439.0
35°	1253.5	1270.1	1315.3	1365.2	1396.2
37.5°	1191.6	1210.6	1260.6	1317.7	1351.0
40°	1127.4	1148.8	1205.9	1267.7	1305.8
42.5°	1063.2	1087.0	1148.8	1222.5	1260.6
45°	999.0	1025.1	1091.7	1172.6	1215.4
47.5°	932.4	963.3	1032.3	1122.6	1165.5
50°	868.1	899.1	977.6	1070.3	1113.1
52.5°	801.5	837.2	920.5	1015.6	1060.8
55°	737.3	773.0	863.4	958.5	1006.1
57.5°	673.1	708.8	803.9	901.4	949.0
60°	608.9	646.9	746.8	842.0	891.9
62.5°	544.7	585.1	687.4	784.9	832.5
65°	482.8	525.6	627.9	723.1	773.0
67.5°	423.4	468.6	568.5	661.2	711.2
70°	363.9	409.1	506.6	597.0	646.9
72.5°	306.8	352.0	447.2	528.0	566.1
75°	249.7	297.3	382.9	440.0	463.8
77.5°	195.0	242.6	316.3	354.4	380.6
80°	145.1	185.5	237.8	266.4	275.9
82.5°	99.9	133.2	166.5	173.6	178.4
85°	61.8	78.5	90.4	88.0	88.0
87.5°	28.5	30.9	26.2	19.0	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)