

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-S-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 (P25712)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-39SE-S-UNV-L850-CD1-U  
Description: CRUZE 2x2 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

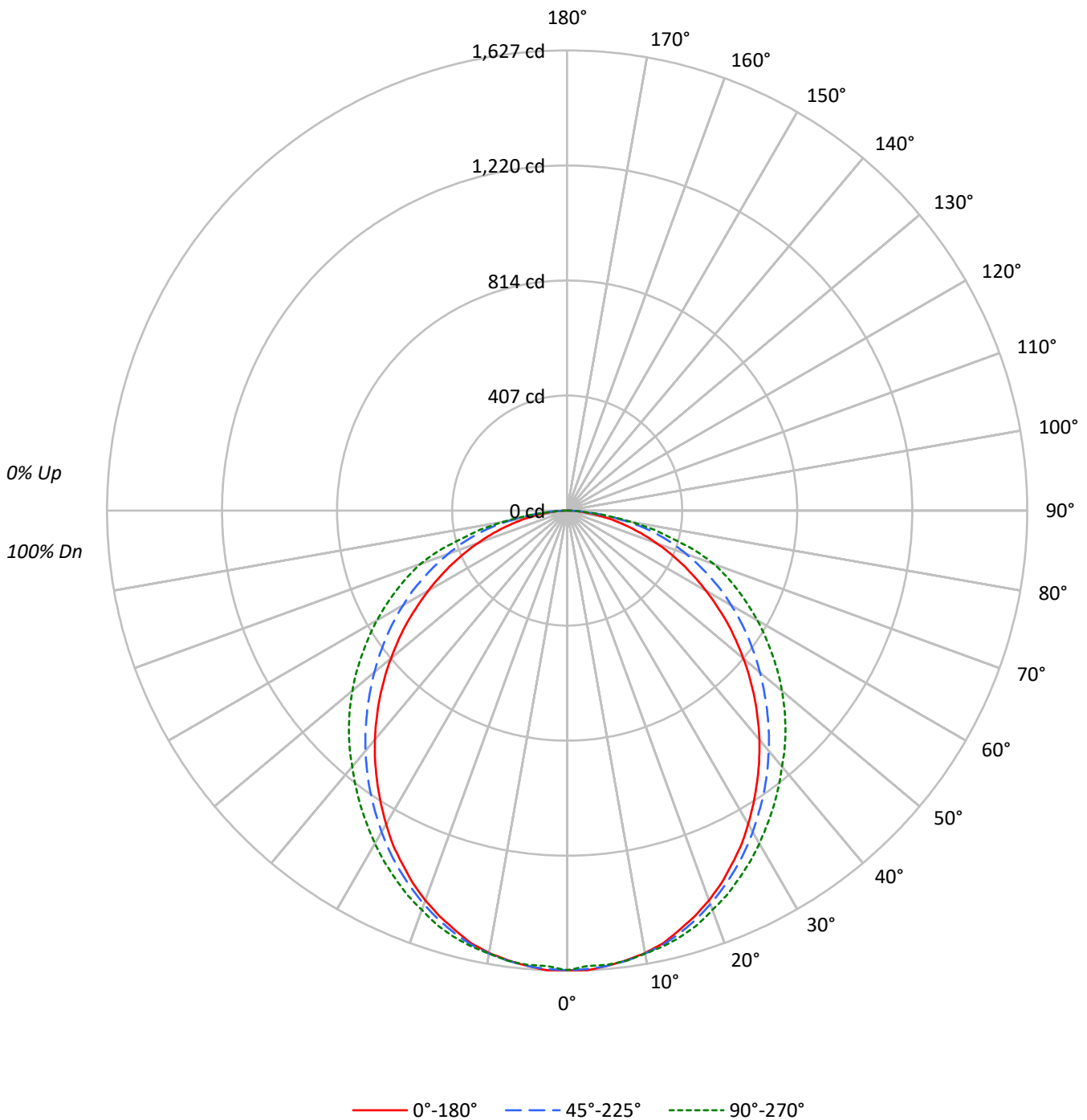
Lumens per Lamp: N/A  
Luminaire Lumens: 4456.6 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

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	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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4372	4372	4372
5°	4346	4339	4335
10°	4302	4293	4308
15°	4219	4226	4284
20°	4124	4136	4226
25°	4000	4030	4167
30°	3866	3917	4105
35°	3716	3799	4042
40°	3565	3677	3984
45°	3398	3553	3957
50°	3214	3438	3916
55°	3028	3329	3871
60°	2810	3212	3848
65°	2585	3089	3828
70°	2325	2947	3821
75°	2007	2765	3394
80°	1629	2321	2739
85°	1094	1352	1387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.4	3.4
10°-20°	435.8	9.8
20°-30°	647.3	14.5
30°-40°	762.0	17.1
40°-50°	776.8	17.4
50°-60°	700.6	15.7
60°-70°	551.9	12.4
70°-80°	340.4	7.6
80°-90°	88.4	2.0
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°	1236.6	27.7
0°-40°	1998.6	44.8
0°-60°	3476.0	78.0
0°-90°	4456.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4456.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1616	1618	1616	1614	1612	153
15°	1535	1541	1546	1554	1558	433
25°	1378	1387	1402	1426	1436	635
35°	1171	1184	1214	1252	1274	732
45°	938	953	1000	1060	1092	723
55°	691	715	781	852	884	617
65°	450	482	559	629	666	445
75°	229	268	336	375	387	244
85°	56	71	79	75	71	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1624.7	1624.7	1624.7	1624.7	1624.7
2.5°	1626.8	1626.8	1622.6	1618.3	1611.9
5°	1616.1	1618.3	1616.1	1614.0	1611.9
7.5°	1603.3	1605.4	1605.4	1605.4	1605.4
10°	1588.3	1590.5	1590.5	1590.5	1590.5
12.5°	1566.9	1569.0	1571.2	1573.3	1577.6
15°	1534.8	1541.2	1545.5	1554.1	1558.3
17.5°	1502.7	1509.1	1515.5	1526.2	1534.8
20°	1466.3	1470.6	1481.3	1494.1	1502.7
22.5°	1425.6	1432.1	1442.8	1459.9	1472.7
25°	1378.5	1387.1	1402.1	1425.6	1436.3
27.5°	1333.6	1340.0	1359.3	1385.0	1399.9
30°	1280.1	1288.6	1312.2	1344.3	1359.3
32.5°	1226.6	1237.3	1262.9	1299.3	1316.5
35°	1170.9	1183.7	1213.7	1252.2	1273.6
37.5°	1115.2	1128.1	1162.3	1205.1	1228.7
40°	1057.4	1070.3	1108.8	1155.9	1181.6
42.5°	997.5	1012.5	1055.3	1108.8	1138.8
45°	937.6	952.6	999.7	1059.6	1091.7
47.5°	875.5	892.6	944.0	1010.4	1042.5
50°	813.4	832.7	890.5	959.0	991.1
52.5°	751.3	772.8	834.8	905.5	939.7
55°	691.4	715.0	781.3	852.0	884.1
57.5°	627.2	655.0	725.7	794.2	830.5
60°	567.3	597.2	670.0	738.5	777.0
62.5°	507.3	539.4	616.5	685.0	721.4
65°	449.5	481.6	558.7	629.3	665.7
67.5°	391.7	428.1	503.0	573.7	610.1
70°	336.1	374.6	447.4	515.9	552.3
72.5°	282.6	321.1	393.9	458.1	479.5
75°	229.0	267.6	336.1	374.6	387.4
77.5°	179.8	216.2	276.1	299.7	316.8
80°	134.9	167.0	209.8	224.8	226.9
82.5°	92.0	119.9	145.6	147.7	145.6
85°	55.7	70.6	79.2	74.9	70.6
87.5°	25.7	27.8	25.7	17.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)