

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: P390865

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L935-CD1-SWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P390865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 2/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-95VHE-RDP-UNV-L935-CD1-SWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5396.8 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

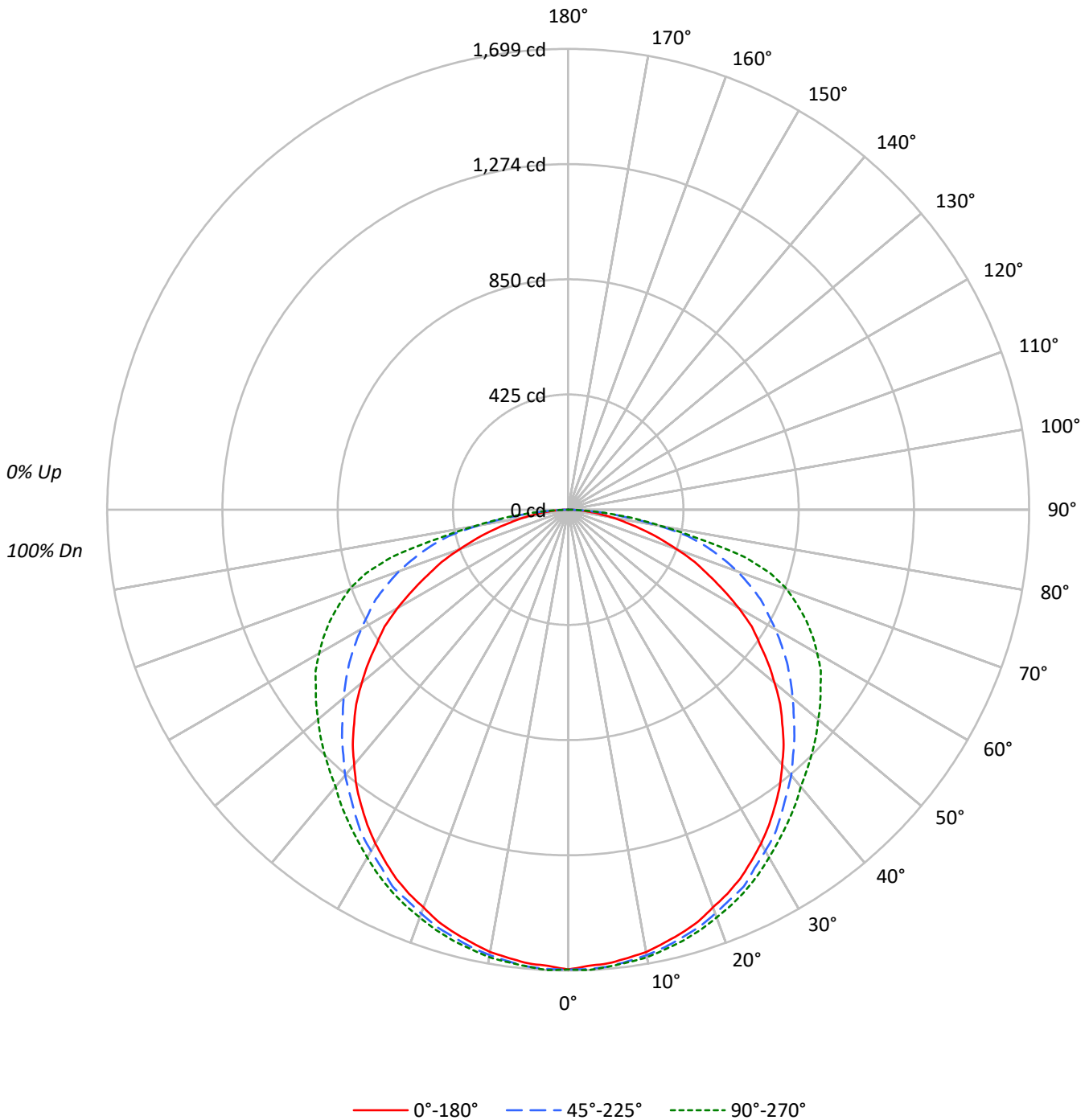
Input Watts (W): 72.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	4562	4562	4562
5°	4536	4569	4569
10°	4524	4556	4578
15°	4501	4546	4579
20°	4468	4536	4582
25°	4456	4550	4597
30°	4416	4515	4601
35°	4369	4500	4630
40°	4310	4491	4686
45°	4246	4487	4835
50°	4155	4521	5036
55°	4042	4619	5327
60°	3910	4744	5705
65°	3640	4980	6168
70°	3342	5216	6747
75°	2931	5490	6975
80°	2523	5230	5475
85°	2208	3801	4168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.4	3.0
10°-20°	460.4	8.5
20°-30°	702.5	13.0
30°-40°	857.7	15.9
40°-50°	917.1	17.0
50°-60°	885.2	16.4
60°-70°	762.0	14.1
70°-80°	515.6	9.6
80°-90°	136.0	2.5
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°	1323.2	24.5
0°-40°	2180.9	40.4
0°-60°	3983.2	73.8
0°-90°	5396.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5396.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1679	1683	1691	1691	1691	159
15°	1616	1620	1632	1640	1644	456
25°	1501	1509	1532	1540	1548	691
35°	1330	1342	1370	1398	1409	832
45°	1116	1135	1179	1239	1270	861
55°	862	889	985	1084	1135	772
65°	572	627	782	905	969	569
75°	282	373	528	635	671	302
85°	72	99	123	127	135	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1695.2	1695.2	1695.2	1695.2	1695.2
2.5°	1683.3	1687.3	1695.2	1695.2	1699.2
5°	1679.3	1683.3	1691.3	1691.3	1691.3
7.5°	1667.4	1671.4	1679.3	1683.3	1683.3
10°	1655.5	1659.5	1667.4	1671.4	1675.4
12.5°	1635.7	1639.6	1651.6	1659.5	1659.5
15°	1615.8	1619.8	1631.7	1639.6	1643.6
17.5°	1592.0	1599.9	1611.9	1619.8	1623.8
20°	1560.2	1568.2	1584.1	1596.0	1599.9
22.5°	1532.5	1540.4	1556.3	1568.2	1576.1
25°	1500.7	1508.6	1532.5	1540.4	1548.3
27.5°	1461.0	1468.9	1488.8	1504.7	1516.6
30°	1421.3	1429.2	1453.1	1472.9	1480.8
32.5°	1377.6	1389.5	1417.3	1433.2	1445.1
35°	1330.0	1341.9	1369.7	1397.5	1409.4
37.5°	1282.3	1294.2	1322.0	1357.8	1373.7
40°	1226.8	1242.6	1278.4	1326.0	1334.0
42.5°	1175.1	1195.0	1226.8	1282.3	1302.2
45°	1115.6	1135.4	1179.1	1238.7	1270.4
47.5°	1060.0	1079.9	1127.5	1199.0	1238.7
50°	992.5	1020.3	1079.9	1163.2	1202.9
52.5°	929.0	952.8	1032.2	1123.5	1171.2
55°	861.5	889.3	984.6	1083.8	1135.4
57.5°	802.0	825.8	933.0	1044.1	1103.7
60°	726.5	758.3	881.4	1000.5	1060.0
62.5°	647.1	694.8	829.7	952.8	1016.3
65°	571.7	627.3	782.1	905.2	968.7
67.5°	504.2	563.8	722.6	853.6	913.1
70°	424.8	500.2	663.0	790.0	857.5
72.5°	353.3	436.7	595.5	722.6	782.1
75°	281.9	373.2	528.0	635.2	670.9
77.5°	218.4	305.7	452.6	484.4	488.3
80°	162.8	242.2	337.5	341.4	353.3
82.5°	111.2	170.7	218.4	238.2	242.2
85°	71.5	99.3	123.1	127.0	135.0
87.5°	31.8	35.7	43.7	39.7	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)