

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: P390673

Luminaire Tested: **22CZ2-75VHE-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: P390673
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: 22CZ2-75VHE-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: 4243.9 lumens
Efficiency: N/A
Efficacy: 77.6 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

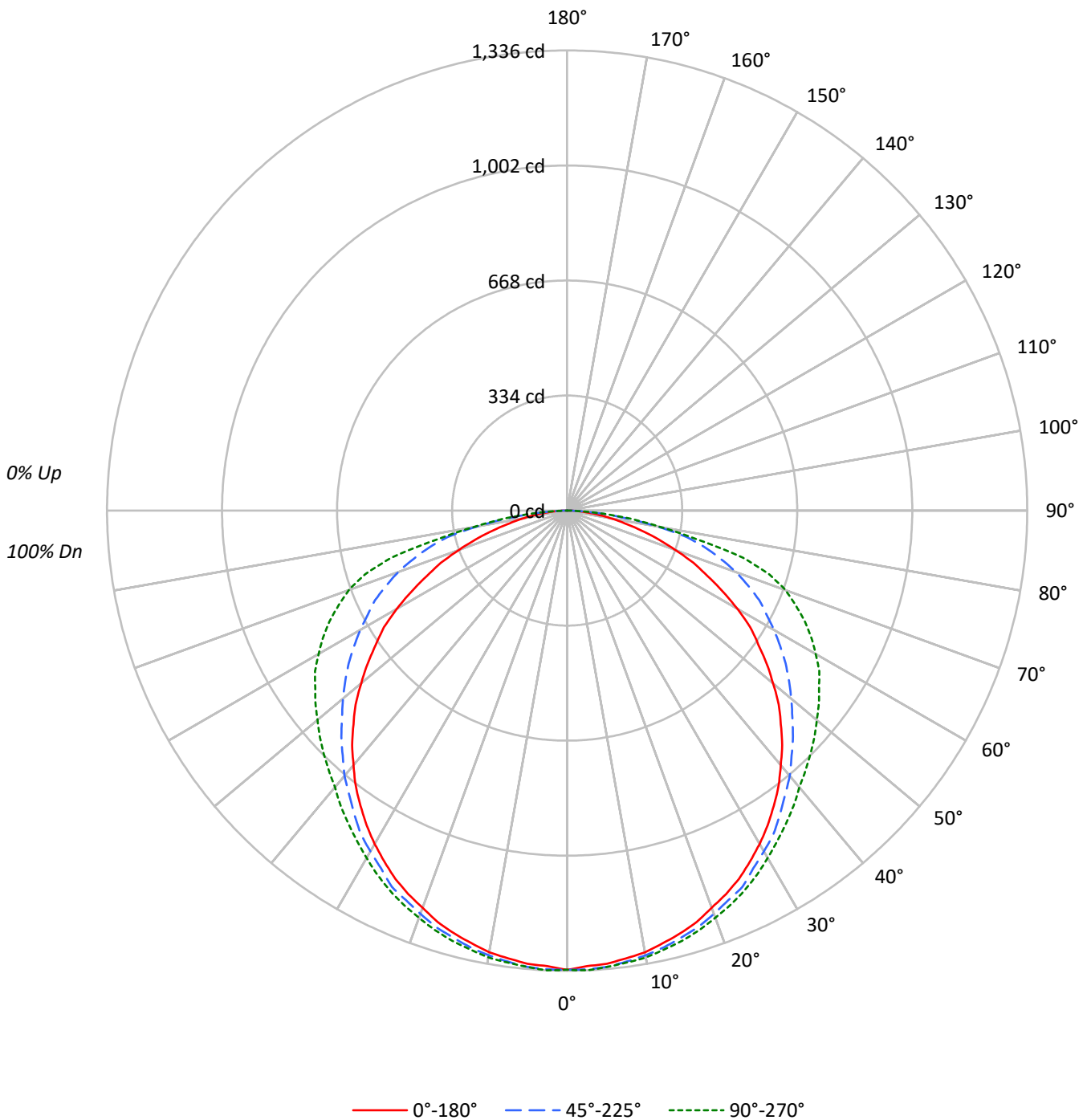
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P390673

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L935-CD1-SWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P390673

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L935-CD1-SWPD1-U

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°	3587	3587	3587
5°	3567	3593	3593
10°	3557	3583	3600
15°	3540	3575	3601
20°	3513	3567	3603
25°	3504	3578	3615
30°	3473	3550	3618
35°	3436	3538	3641
40°	3389	3531	3685
45°	3339	3529	3802
50°	3268	3555	3960
55°	3179	3632	4189
60°	3075	3730	4486
65°	2863	3916	4851
70°	2629	4102	5305
75°	2305	4317	5486
80°	1984	4113	4307
85°	1735	2989	3276



TEST NUMBER: P390673

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L935-CD1-SWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	3.0
10°-20°	362.1	8.5
20°-30°	552.4	13.0
30°-40°	674.5	15.9
40°-50°	721.2	17.0
50°-60°	696.1	16.4
60°-70°	599.2	14.1
70°-80°	405.4	9.6
80°-90°	107.0	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°	1040.6	24.5
0°-40°	1715.0	40.4
0°-60°	3132.3	73.8
0°-90°	4243.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4243.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1321	1324	1330	1330	1330	125
15°	1271	1274	1283	1289	1292	358
25°	1180	1186	1205	1211	1218	543
35°	1046	1055	1077	1099	1108	654
45°	877	893	927	974	999	677
55°	678	699	774	852	893	607
65°	450	493	615	712	762	447
75°	222	294	415	500	528	238
85°	56	78	97	100	106	63
90°	0	0	0	0	0	



TEST NUMBER: P390673

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L935-CD1-SWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.1	1333.1	1333.1	1333.1	1333.1
2.5°	1323.7	1326.8	1333.1	1333.1	1336.2
5°	1320.6	1323.7	1330.0	1330.0	1330.0
7.5°	1311.2	1314.4	1320.6	1323.7	1323.7
10°	1301.9	1305.0	1311.2	1314.4	1317.5
12.5°	1286.3	1289.4	1298.7	1305.0	1305.0
15°	1270.6	1273.8	1283.1	1289.4	1292.5
17.5°	1251.9	1258.2	1267.5	1273.8	1276.9
20°	1226.9	1233.2	1245.7	1255.0	1258.2
22.5°	1205.1	1211.3	1223.8	1233.2	1239.4
25°	1180.1	1186.4	1205.1	1211.3	1217.6
27.5°	1148.9	1155.1	1170.7	1183.2	1192.6
30°	1117.7	1123.9	1142.6	1158.3	1164.5
32.5°	1083.3	1092.7	1114.5	1127.0	1136.4
35°	1045.9	1055.2	1077.1	1098.9	1108.3
37.5°	1008.4	1017.8	1039.6	1067.7	1080.2
40°	964.7	977.2	1005.3	1042.7	1049.0
42.5°	924.1	939.7	964.7	1008.4	1024.0
45°	877.3	892.9	927.2	974.1	999.0
47.5°	833.6	849.2	886.6	942.8	974.1
50°	780.5	802.3	849.2	914.7	946.0
52.5°	730.5	749.3	811.7	883.5	921.0
55°	677.5	699.3	774.2	852.3	892.9
57.5°	630.6	649.4	733.7	821.1	867.9
60°	571.3	596.3	693.1	786.7	833.6
62.5°	508.9	546.3	652.5	749.3	799.2
65°	449.6	493.3	615.0	711.8	761.8
67.5°	396.5	443.3	568.2	671.2	718.1
70°	334.1	393.4	521.4	621.3	674.3
72.5°	277.9	343.4	468.3	568.2	615.0
75°	221.7	293.5	415.2	499.5	527.6
77.5°	171.7	240.4	355.9	380.9	384.0
80°	128.0	190.4	265.4	268.5	277.9
82.5°	87.4	134.2	171.7	187.3	190.4
85°	56.2	78.0	96.8	99.9	106.1
87.5°	25.0	28.1	34.3	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)