

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: P390670

Luminaire Tested: **22CZ2-75VHE-RDP-UNV-L930-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: P390670
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-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4141.5 lumens
Efficiency: N/A
Efficacy: 75.7 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

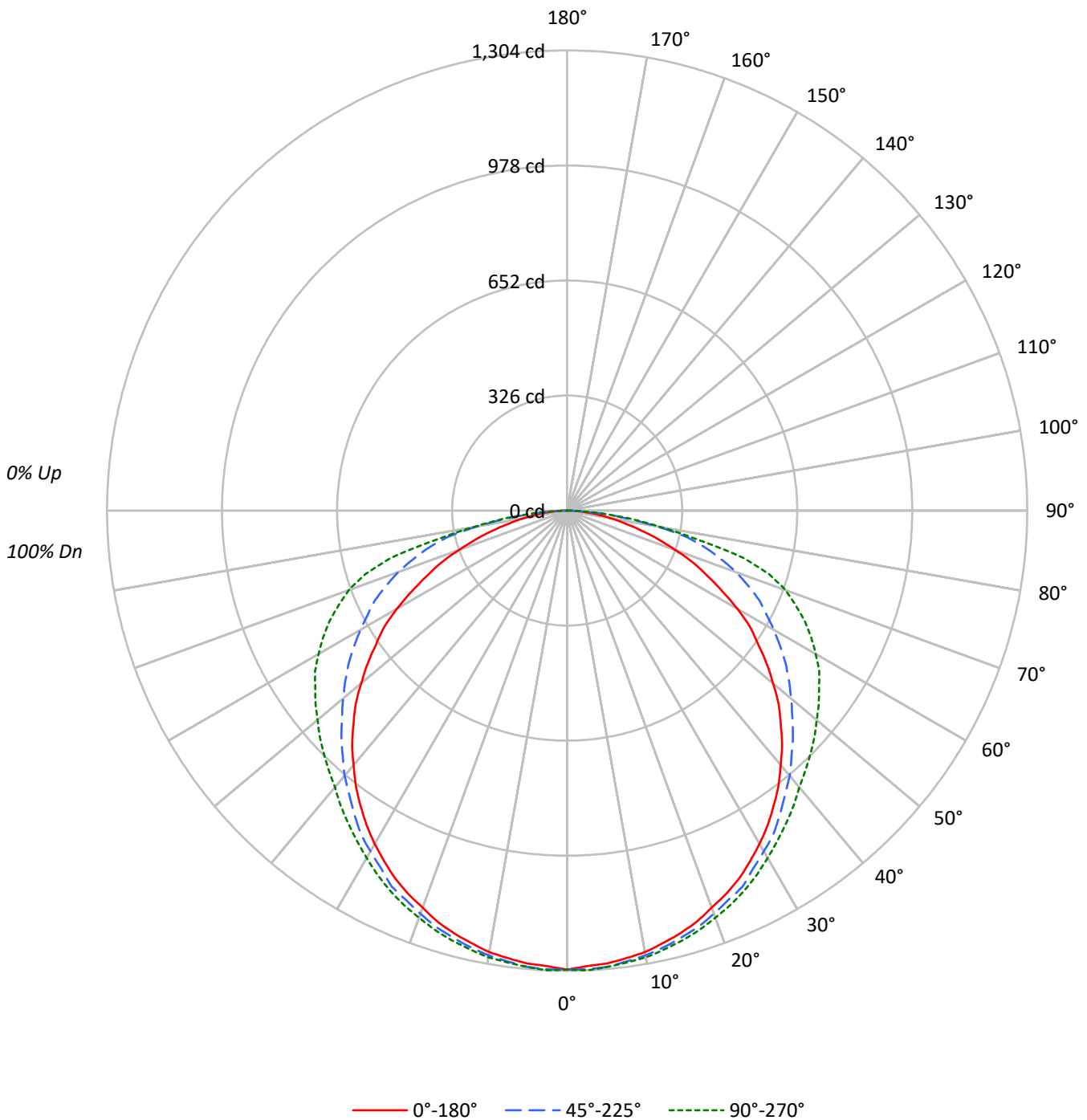
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P390670

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L930-CD1-SWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P390670

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L930-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°	3501	3501	3501
5°	3481	3506	3506
10°	3472	3496	3513
15°	3455	3489	3514
20°	3429	3481	3516
25°	3419	3492	3528
30°	3389	3465	3531
35°	3353	3453	3553
40°	3307	3446	3596
45°	3258	3444	3710
50°	3189	3469	3864
55°	3102	3545	4088
60°	3000	3640	4378
65°	2793	3822	4734
70°	2565	4003	5178
75°	2249	4213	5353
80°	1936	4014	4203
85°	1692	2915	3199



TEST NUMBER: P390670

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L930-CD1-SWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	3.0
10°-20°	353.3	8.5
20°-30°	539.1	13.0
30°-40°	658.2	15.9
40°-50°	703.8	17.0
50°-60°	679.3	16.4
60°-70°	584.8	14.1
70°-80°	395.6	9.6
80°-90°	104.4	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°	1015.4	24.5
0°-40°	1673.7	40.4
0°-60°	3056.7	73.8
0°-90°	4141.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1289	1292	1298	1298	1298	122
15°	1240	1243	1252	1258	1261	350
25°	1152	1158	1176	1182	1188	530
35°	1021	1030	1051	1072	1082	639
45°	856	871	905	951	975	661
55°	661	682	756	832	871	592
65°	439	481	600	695	743	436
75°	216	286	405	488	515	232
85°	55	76	94	98	104	62
90°	0	0	0	0	0	



TEST NUMBER: P390670

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L930-CD1-SWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.9	1300.9	1300.9	1300.9	1300.9
2.5°	1291.8	1294.8	1300.9	1300.9	1304.0
5°	1288.7	1291.8	1297.9	1297.9	1297.9
7.5°	1279.6	1282.6	1288.7	1291.8	1291.8
10°	1270.5	1273.5	1279.6	1282.6	1285.7
12.5°	1255.2	1258.3	1267.4	1273.5	1273.5
15°	1240.0	1243.0	1252.2	1258.3	1261.3
17.5°	1221.7	1227.8	1236.9	1243.0	1246.1
20°	1197.3	1203.4	1215.6	1224.8	1227.8
22.5°	1176.0	1182.1	1194.3	1203.4	1209.5
25°	1151.6	1157.7	1176.0	1182.1	1188.2
27.5°	1121.2	1127.3	1142.5	1154.7	1163.8
30°	1090.7	1096.8	1115.1	1130.3	1136.4
32.5°	1057.2	1066.3	1087.7	1099.8	1109.0
35°	1020.6	1029.8	1051.1	1072.4	1081.6
37.5°	984.1	993.2	1014.5	1042.0	1054.1
40°	941.4	953.6	981.0	1017.6	1023.7
42.5°	901.8	917.0	941.4	984.1	999.3
45°	856.1	871.3	904.9	950.6	974.9
47.5°	813.5	828.7	865.2	920.1	950.6
50°	761.7	783.0	828.7	892.7	923.1
52.5°	712.9	731.2	792.1	862.2	898.8
55°	661.1	682.4	755.6	831.7	871.3
57.5°	615.4	633.7	716.0	801.3	847.0
60°	557.5	581.9	676.4	767.8	813.5
62.5°	496.6	533.2	636.7	731.2	779.9
65°	438.7	481.4	600.2	694.6	743.4
67.5°	386.9	432.6	554.5	655.0	700.7
70°	326.0	383.9	508.8	606.3	658.1
72.5°	271.2	335.1	457.0	554.5	600.2
75°	216.3	286.4	405.2	487.5	514.9
77.5°	167.6	234.6	347.3	371.7	374.7
80°	124.9	185.8	259.0	262.0	271.2
82.5°	85.3	131.0	167.6	182.8	185.8
85°	54.8	76.2	94.4	97.5	103.6
87.5°	24.4	27.4	33.5	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)