

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: P390864

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L935-CD1-SDWPD1-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: P390864
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-SDWPD1-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: 5331.7 lumens
Efficiency: N/A
Efficacy: 73.3 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

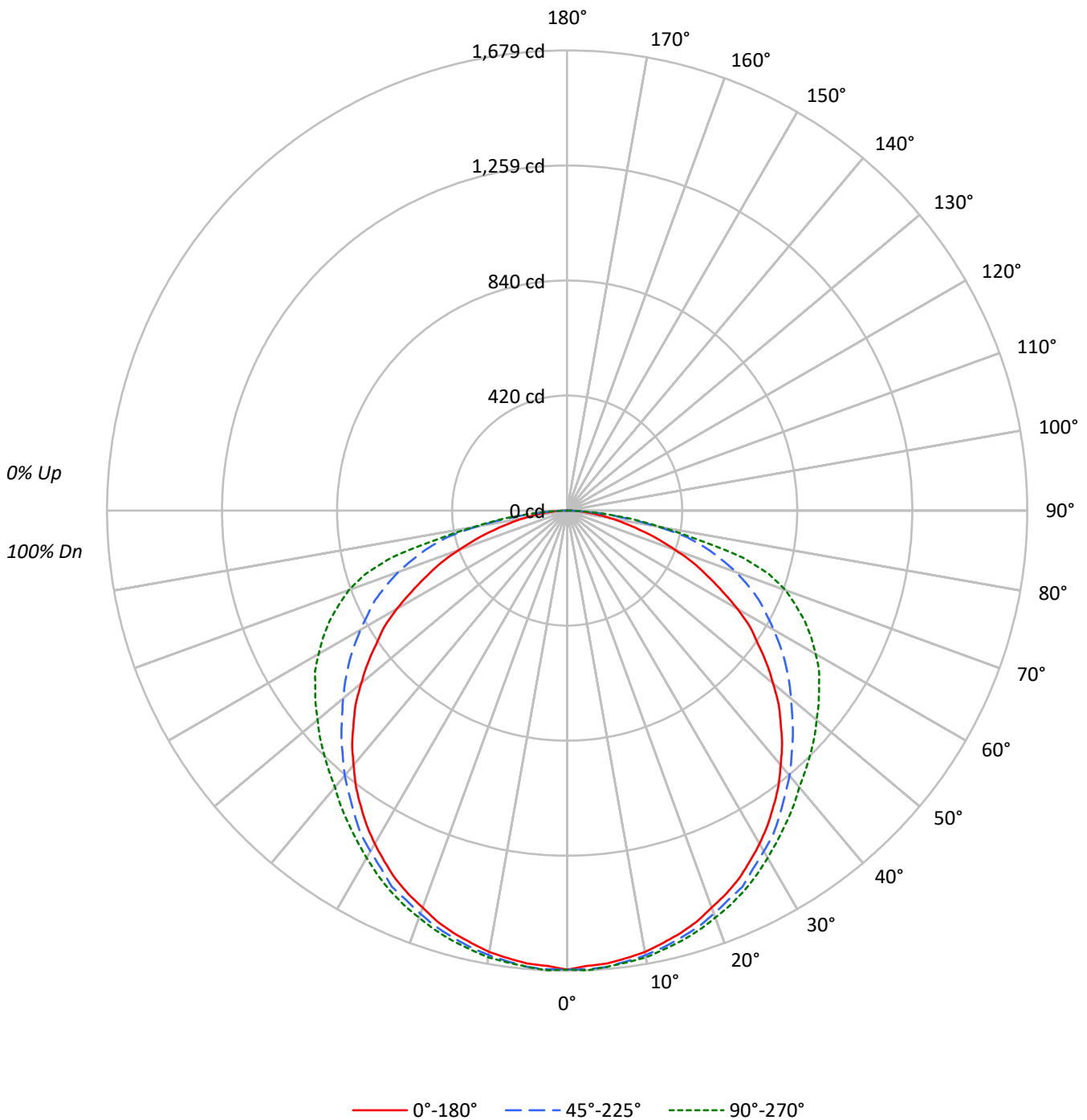
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P390864

CATALOG NUMBER: 22CZ2-95VHE-RDP-UNV-L935-CD1-SDWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P390864

CATALOG NUMBER: 22CZ2-95VHE-RDP-UNV-L935-CD1-SDWPD1-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°	4507	4507	4507
5°	4482	4514	4514
10°	4469	4501	4523
15°	4447	4491	4524
20°	4414	4482	4526
25°	4402	4495	4542
30°	4363	4460	4546
35°	4316	4445	4574
40°	4258	4436	4630
45°	4194	4433	4776
50°	4105	4466	4975
55°	3993	4563	5263
60°	3863	4686	5636
65°	3596	4920	6094
70°	3302	5153	6666
75°	2896	5424	6892
80°	2492	5167	5410
85°	2180	3754	4119



TEST NUMBER: P390864

CATALOG NUMBER: 22CZ2-95VHE-RDP-UNV-L935-CD1-SDWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	3.0
10°-20°	454.9	8.5
20°-30°	694.0	13.0
30°-40°	847.4	15.9
40°-50°	906.0	17.0
50°-60°	874.5	16.4
60°-70°	752.8	14.1
70°-80°	509.3	9.6
80°-90°	134.4	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°	1307.3	24.5
0°-40°	2154.6	40.4
0°-60°	3935.2	73.8
0°-90°	5331.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5331.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1659	1663	1671	1671	1671	158
15°	1596	1600	1612	1620	1624	450
25°	1483	1490	1514	1522	1530	682
35°	1314	1326	1353	1381	1392	822
45°	1102	1122	1165	1224	1255	851
55°	851	879	973	1071	1122	763
65°	565	620	773	894	957	562
75°	278	369	522	628	663	299
85°	71	98	122	126	133	79
90°	0	0	0	0	0	



TEST NUMBER: P390864

CATALOG NUMBER: 22CZ2-95VHE-RDP-UNV-L935-CD1-SDWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.8	1674.8	1674.8	1674.8	1674.8
2.5°	1663.0	1666.9	1674.8	1674.8	1678.7
5°	1659.1	1663.0	1670.9	1670.9	1670.9
7.5°	1647.3	1651.2	1659.1	1663.0	1663.0
10°	1635.6	1639.5	1647.3	1651.2	1655.2
12.5°	1615.9	1619.9	1631.6	1639.5	1639.5
15°	1596.3	1600.3	1612.0	1619.9	1623.8
17.5°	1572.8	1580.6	1592.4	1600.3	1604.2
20°	1541.4	1549.3	1565.0	1576.7	1580.6
22.5°	1514.0	1521.8	1537.5	1549.3	1557.1
25°	1482.6	1490.4	1514.0	1521.8	1529.7
27.5°	1443.4	1451.2	1470.8	1486.5	1498.3
30°	1404.1	1412.0	1435.5	1455.1	1463.0
32.5°	1361.0	1372.8	1400.2	1415.9	1427.7
35°	1313.9	1325.7	1353.2	1380.6	1392.4
37.5°	1266.9	1278.6	1306.1	1341.4	1357.1
40°	1212.0	1227.6	1262.9	1310.0	1317.9
42.5°	1161.0	1180.6	1212.0	1266.9	1286.5
45°	1102.1	1121.7	1164.9	1223.7	1255.1
47.5°	1047.2	1066.8	1113.9	1184.5	1223.7
50°	980.6	1008.0	1066.8	1149.2	1188.4
52.5°	917.8	941.3	1019.8	1110.0	1157.0
55°	851.1	878.6	972.7	1070.8	1121.7
57.5°	792.3	815.8	921.7	1031.5	1090.4
60°	717.8	749.1	870.7	988.4	1047.2
62.5°	639.3	686.4	819.7	941.3	1004.1
65°	564.8	619.7	772.7	894.3	957.0
67.5°	498.1	557.0	713.8	843.3	902.1
70°	419.7	494.2	655.0	780.5	847.2
72.5°	349.1	431.4	588.3	713.8	772.7
75°	278.5	368.7	521.7	627.6	662.9
77.5°	215.7	302.0	447.1	478.5	482.4
80°	160.8	239.3	333.4	337.3	349.1
82.5°	109.8	168.7	215.7	235.3	239.3
85°	70.6	98.1	121.6	125.5	133.4
87.5°	31.4	35.3	43.1	39.2	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)