

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: P390863

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L930-CD1-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: P390863
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-L930-CD1-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: 5332.7 lumens
Efficiency: N/A
Efficacy: 73.4 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

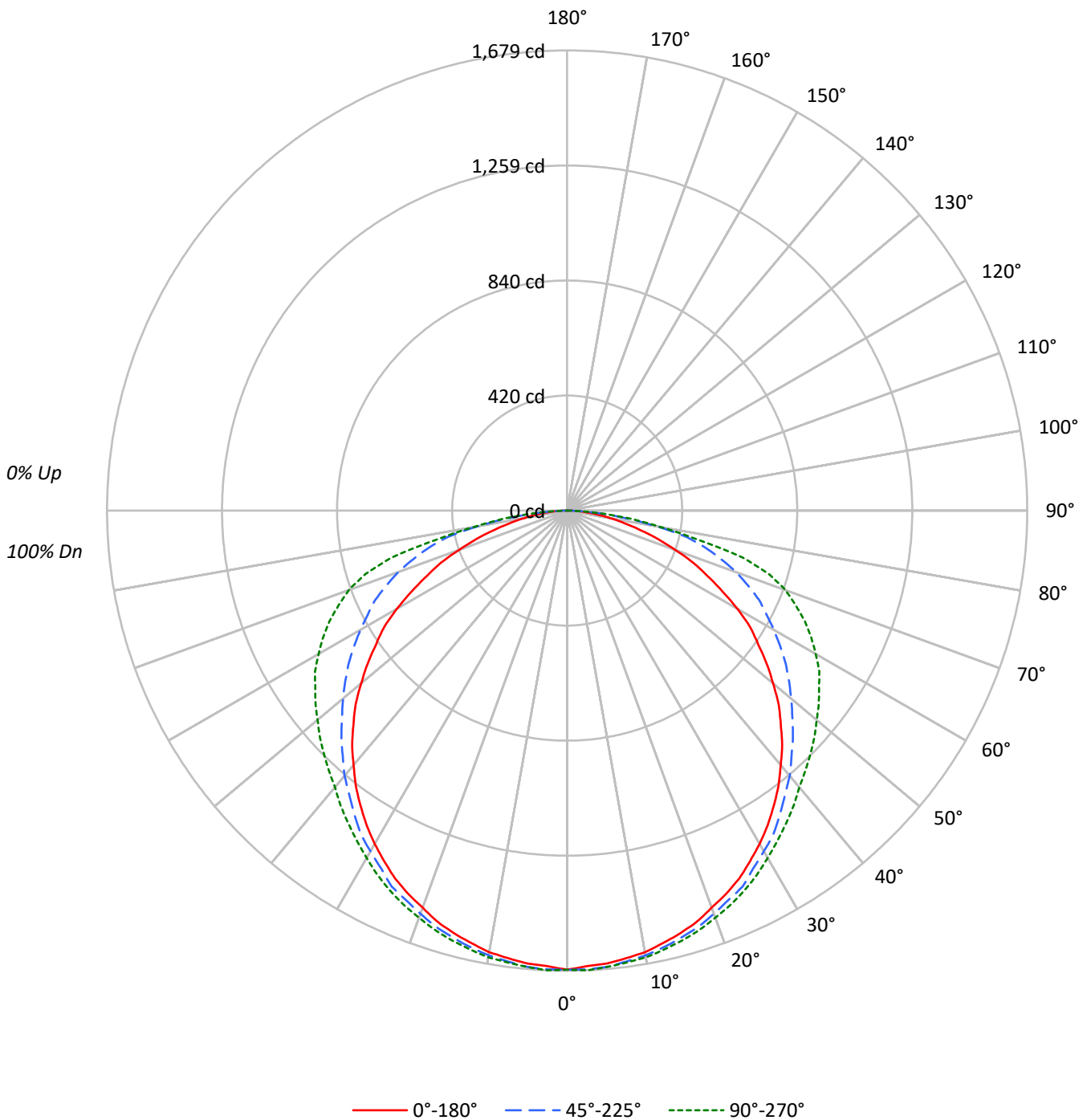
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4508	4508	4508
5°	4482	4514	4514
10°	4470	4502	4524
15°	4448	4492	4525
20°	4415	4483	4527
25°	4403	4496	4543
30°	4364	4461	4547
35°	4317	4446	4575
40°	4258	4437	4630
45°	4195	4434	4777
50°	4106	4467	4976
55°	3994	4564	5264
60°	3864	4687	5637
65°	3597	4921	6095
70°	3303	5154	6667
75°	2896	5425	6893
80°	2492	5167	5410
85°	2180	3754	4119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	3.0
10°-20°	455.0	8.5
20°-30°	694.1	13.0
30°-40°	847.5	15.9
40°-50°	906.2	17.0
50°-60°	874.7	16.4
60°-70°	752.9	14.1
70°-80°	509.4	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°	1307.5	24.5
0°-40°	2155.0	40.4
0°-60°	3935.9	73.8
0°-90°	5332.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5332.7	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°	1597	1601	1612	1620	1624	450
25°	1483	1491	1514	1522	1530	682
35°	1314	1326	1353	1381	1393	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.1	1675.1	1675.1	1675.1	1675.1
2.5°	1663.3	1667.2	1675.1	1675.1	1679.0
5°	1659.4	1663.3	1671.2	1671.2	1671.2
7.5°	1647.6	1651.6	1659.4	1663.3	1663.3
10°	1635.9	1639.8	1647.6	1651.6	1655.5
12.5°	1616.2	1620.2	1631.9	1639.8	1639.8
15°	1596.6	1600.6	1612.3	1620.2	1624.1
17.5°	1573.1	1580.9	1592.7	1600.6	1604.5
20°	1541.7	1549.6	1565.3	1577.0	1580.9
22.5°	1514.3	1522.1	1537.8	1549.6	1557.4
25°	1482.9	1490.7	1514.3	1522.1	1529.9
27.5°	1443.6	1451.5	1471.1	1486.8	1498.6
30°	1404.4	1412.3	1435.8	1455.4	1463.3
32.5°	1361.3	1373.0	1400.5	1416.2	1427.9
35°	1314.2	1326.0	1353.4	1380.9	1392.6
37.5°	1267.1	1278.9	1306.3	1341.6	1357.3
40°	1212.2	1227.9	1263.2	1310.3	1318.1
42.5°	1161.2	1180.8	1212.2	1267.1	1286.7
45°	1102.3	1122.0	1165.1	1224.0	1255.3
47.5°	1047.4	1067.0	1114.1	1184.7	1224.0
50°	980.7	1008.2	1067.0	1149.4	1188.6
52.5°	918.0	941.5	1020.0	1110.2	1157.3
55°	851.3	878.7	972.9	1071.0	1122.0
57.5°	792.4	816.0	921.9	1031.7	1090.6
60°	717.9	749.3	870.9	988.6	1047.4
62.5°	639.4	686.5	819.9	941.5	1004.3
65°	564.9	619.8	772.8	894.4	957.2
67.5°	498.2	557.1	714.0	843.4	902.3
70°	419.8	494.3	655.1	780.7	847.4
72.5°	349.1	431.5	588.4	714.0	772.8
75°	278.5	368.8	521.8	627.7	663.0
77.5°	215.8	302.1	447.2	478.6	482.5
80°	160.8	239.3	333.4	337.4	349.1
82.5°	109.8	168.7	215.8	235.4	239.3
85°	70.6	98.1	121.6	125.5	133.4
87.5°	31.4	35.3	43.2	39.2	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)