

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: P390867

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L940-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: P390867
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-L940-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5386.9 lumens
Efficiency: N/A
Efficacy: 74.1 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

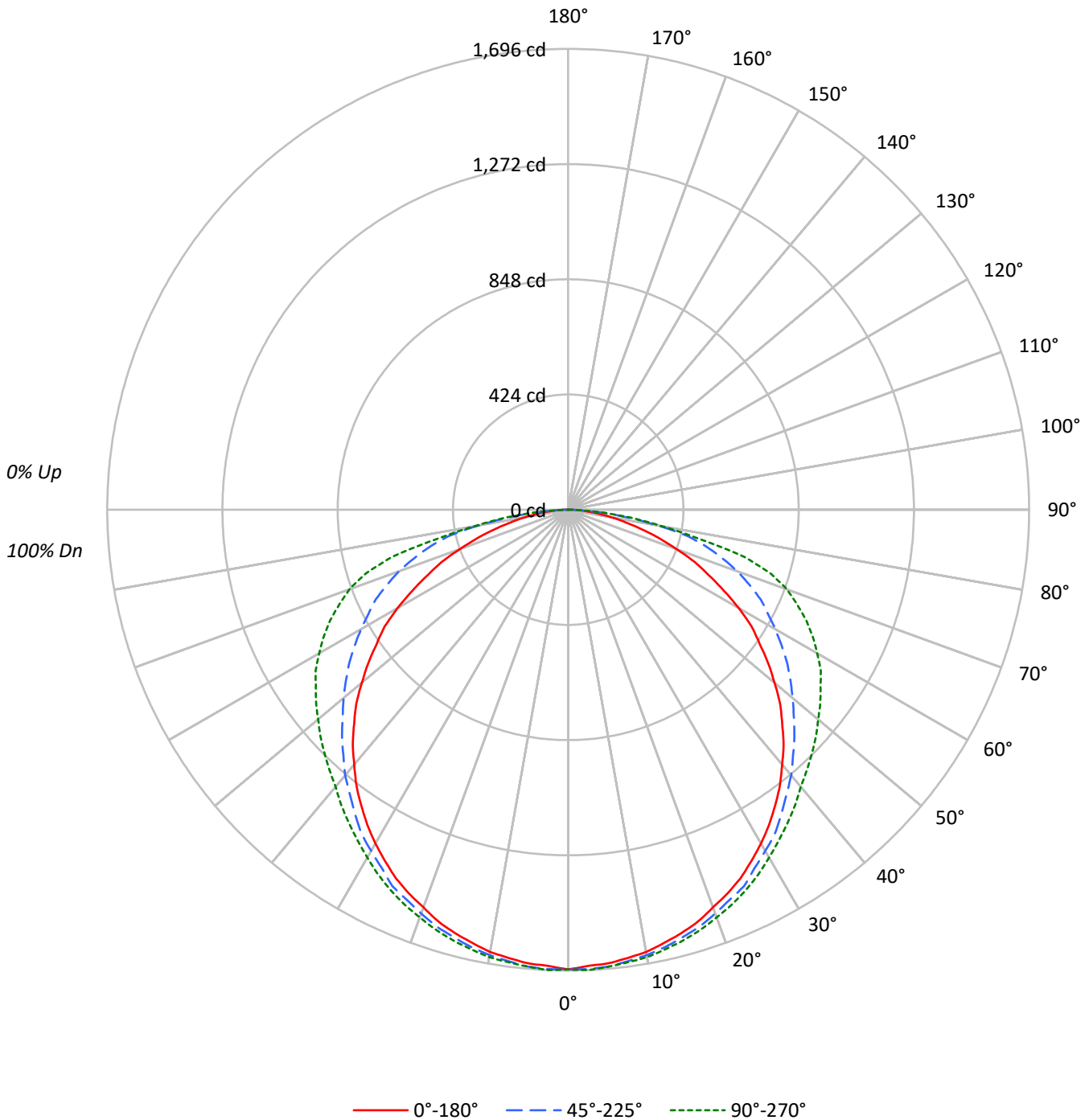
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4553	4553	4553
5°	4528	4560	4560
10°	4515	4548	4570
15°	4493	4537	4571
20°	4460	4528	4573
25°	4448	4542	4589
30°	4408	4507	4593
35°	4361	4491	4621
40°	4301	4482	4677
45°	4238	4479	4826
50°	4147	4513	5027
55°	4034	4611	5317
60°	3903	4735	5695
65°	3633	4971	6157
70°	3336	5207	6735
75°	2926	5480	6963
80°	2518	5219	5466
85°	2201	3792	4159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	3.0
10°-20°	459.6	8.5
20°-30°	701.2	13.0
30°-40°	856.1	15.9
40°-50°	915.4	17.0
50°-60°	883.6	16.4
60°-70°	760.6	14.1
70°-80°	514.6	9.6
80°-90°	135.8	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°	1320.8	24.5
0°-40°	2176.9	40.4
0°-60°	3975.9	73.8
0°-90°	5386.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5386.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1676	1680	1688	1688	1688	159
15°	1613	1617	1629	1637	1641	455
25°	1498	1506	1530	1538	1546	689
35°	1328	1339	1367	1395	1407	831
45°	1114	1133	1177	1236	1268	860
55°	860	888	983	1082	1133	771
65°	571	626	781	904	967	568
75°	281	372	527	634	670	302
85°	71	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°	1692.1	1692.1	1692.1	1692.1	1692.1
2.5°	1680.2	1684.2	1692.1	1692.1	1696.1
5°	1676.3	1680.2	1688.2	1688.2	1688.2
7.5°	1664.4	1668.3	1676.3	1680.2	1680.2
10°	1652.5	1656.5	1664.4	1668.3	1672.3
12.5°	1632.7	1636.6	1648.5	1656.5	1656.5
15°	1612.9	1616.8	1628.7	1636.6	1640.6
17.5°	1589.1	1597.0	1608.9	1616.8	1620.8
20°	1557.4	1565.3	1581.2	1593.0	1597.0
22.5°	1529.6	1537.6	1553.4	1565.3	1573.2
25°	1497.9	1505.9	1529.6	1537.6	1545.5
27.5°	1458.3	1466.2	1486.1	1501.9	1513.8
30°	1418.7	1426.6	1450.4	1470.2	1478.1
32.5°	1375.1	1387.0	1414.7	1430.6	1442.5
35°	1327.5	1339.4	1367.2	1394.9	1406.8
37.5°	1280.0	1291.9	1319.6	1355.3	1371.1
40°	1224.5	1240.4	1276.0	1323.6	1331.5
42.5°	1173.0	1192.8	1224.5	1280.0	1299.8
45°	1113.5	1133.4	1177.0	1236.4	1268.1
47.5°	1058.1	1077.9	1125.4	1196.8	1236.4
50°	990.7	1018.4	1077.9	1161.1	1200.7
52.5°	927.3	951.1	1030.3	1121.5	1169.0
55°	859.9	887.7	982.8	1081.8	1133.4
57.5°	800.5	824.3	931.3	1042.2	1101.7
60°	725.2	756.9	879.7	998.6	1058.1
62.5°	645.9	693.5	828.2	951.1	1014.5
65°	570.6	626.1	780.7	903.5	966.9
67.5°	503.3	562.7	721.2	852.0	911.4
70°	424.0	499.3	661.8	788.6	856.0
72.5°	352.7	435.9	594.4	721.2	780.7
75°	281.4	372.5	527.1	634.0	669.7
77.5°	218.0	305.1	451.8	483.5	487.4
80°	162.5	241.7	336.8	340.8	352.7
82.5°	111.0	170.4	218.0	237.8	241.7
85°	71.3	99.1	122.8	126.8	134.7
87.5°	31.7	35.7	43.6	39.6	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)