

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: P390866

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L935-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: P390866
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-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: 5464.6 lumens
Efficiency: N/A
Efficacy: 75.2 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

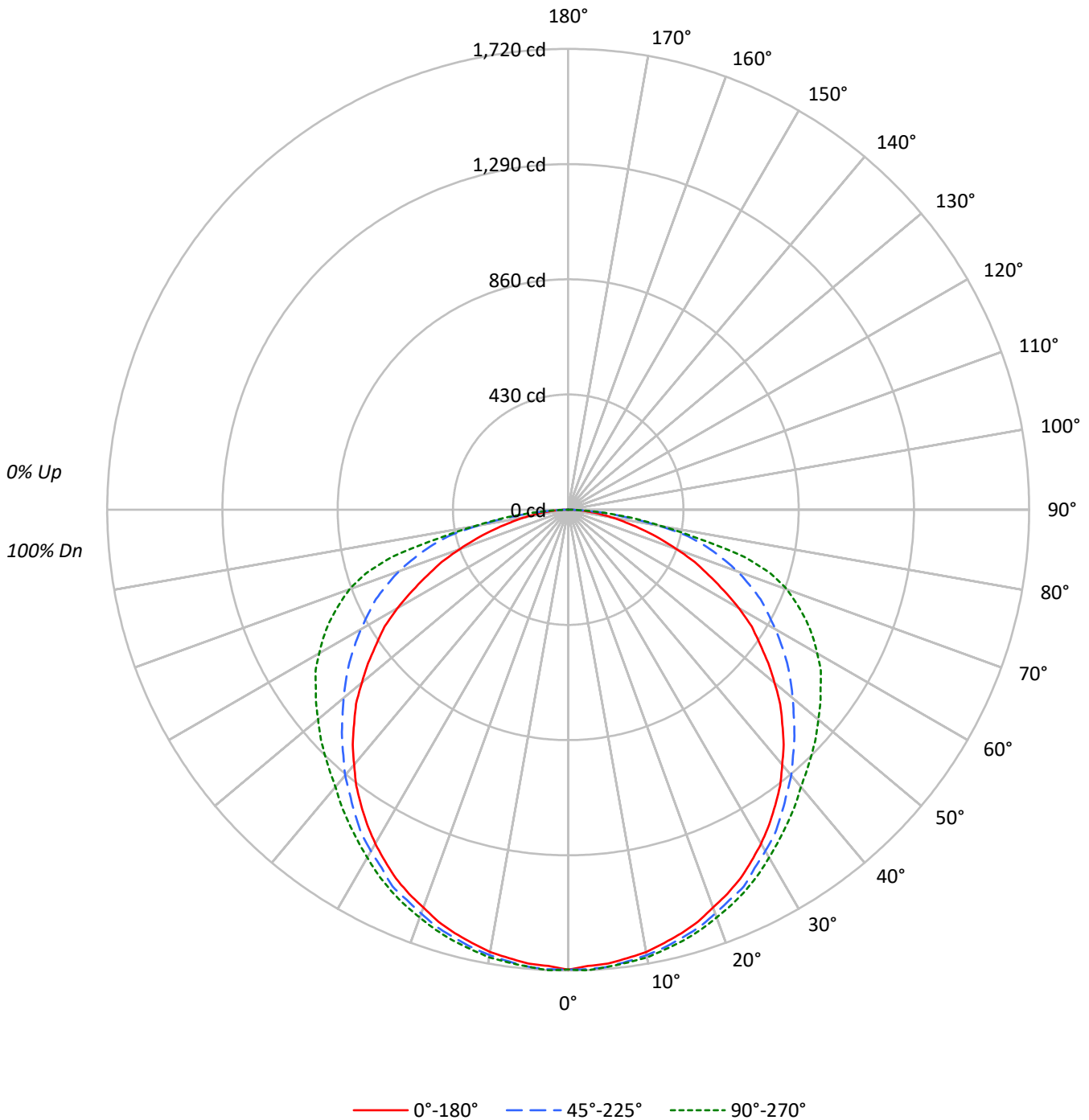
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4619	4619	4619
5°	4593	4626	4626
10°	4580	4614	4635
15°	4558	4603	4637
20°	4524	4593	4639
25°	4512	4607	4655
30°	4472	4572	4659
35°	4424	4556	4688
40°	4364	4547	4745
45°	4299	4544	4896
50°	4207	4577	5099
55°	4092	4678	5394
60°	3960	4803	5776
65°	3686	5042	6246
70°	3384	5282	6832
75°	2967	5559	7064
80°	2554	5295	5545
85°	2235	3847	4221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	3.0
10°-20°	466.2	8.5
20°-30°	711.3	13.0
30°-40°	868.5	15.9
40°-50°	928.6	17.0
50°-60°	896.3	16.4
60°-70°	771.6	14.1
70°-80°	522.0	9.6
80°-90°	137.7	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°	1339.8	24.5
0°-40°	2208.3	40.4
0°-60°	4033.2	73.8
0°-90°	5464.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5464.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1700	1704	1712	1712	1712	161
15°	1636	1640	1652	1660	1664	462
25°	1520	1528	1552	1560	1568	699
35°	1347	1359	1387	1415	1427	843
45°	1130	1150	1194	1254	1286	872
55°	872	900	997	1098	1150	782
65°	579	635	792	917	981	576
75°	285	378	535	643	679	306
85°	72	100	125	129	137	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1716.5	1716.5	1716.5	1716.5	1716.5
2.5°	1704.5	1708.5	1716.5	1716.5	1720.5
5°	1700.4	1704.5	1712.5	1712.5	1712.5
7.5°	1688.4	1692.4	1700.4	1704.5	1704.5
10°	1676.3	1680.3	1688.4	1692.4	1696.4
12.5°	1656.2	1660.2	1672.3	1680.3	1680.3
15°	1636.1	1640.1	1652.2	1660.2	1664.3
17.5°	1612.0	1620.0	1632.1	1640.1	1644.2
20°	1579.8	1587.9	1604.0	1616.0	1620.0
22.5°	1551.7	1559.7	1575.8	1587.9	1595.9
25°	1519.5	1527.6	1551.7	1559.7	1567.8
27.5°	1479.3	1487.4	1507.5	1523.6	1535.6
30°	1439.1	1447.2	1471.3	1491.4	1499.4
32.5°	1394.9	1407.0	1435.1	1451.2	1463.3
35°	1346.7	1358.7	1386.9	1415.0	1427.1
37.5°	1298.4	1310.5	1338.6	1374.8	1390.9
40°	1242.2	1258.2	1294.4	1342.7	1350.7
42.5°	1189.9	1210.0	1242.2	1298.4	1318.5
45°	1129.6	1149.7	1193.9	1254.2	1286.4
47.5°	1073.3	1093.4	1141.7	1214.0	1254.2
50°	1005.0	1033.1	1093.4	1177.9	1218.1
52.5°	940.7	964.8	1045.2	1137.7	1185.9
55°	872.3	900.5	997.0	1097.5	1149.7
57.5°	812.0	836.2	944.7	1057.3	1117.6
60°	735.7	767.8	892.4	1013.0	1073.3
62.5°	655.3	703.5	840.2	964.8	1029.1
65°	578.9	635.2	791.9	916.6	980.9
67.5°	510.5	570.8	731.6	864.3	924.6
70°	430.1	506.5	671.3	800.0	868.3
72.5°	357.8	442.2	603.0	731.6	791.9
75°	285.4	377.9	534.7	643.2	679.4
77.5°	221.1	309.5	458.3	490.4	494.5
80°	164.8	245.2	341.7	345.7	357.8
82.5°	112.6	172.9	221.1	241.2	245.2
85°	72.4	100.5	124.6	128.6	136.7
87.5°	32.2	36.2	44.2	40.2	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)