

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: P390049

Luminaire Tested: **22CZ2-100VHE-RDP-UNV-L935-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: P390049
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: 22CZ2-100VHE-RDP-UNV-L935-CD1-SWPD1-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: 5676.5 lumens
Efficiency: N/A
Efficacy: 73.1 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

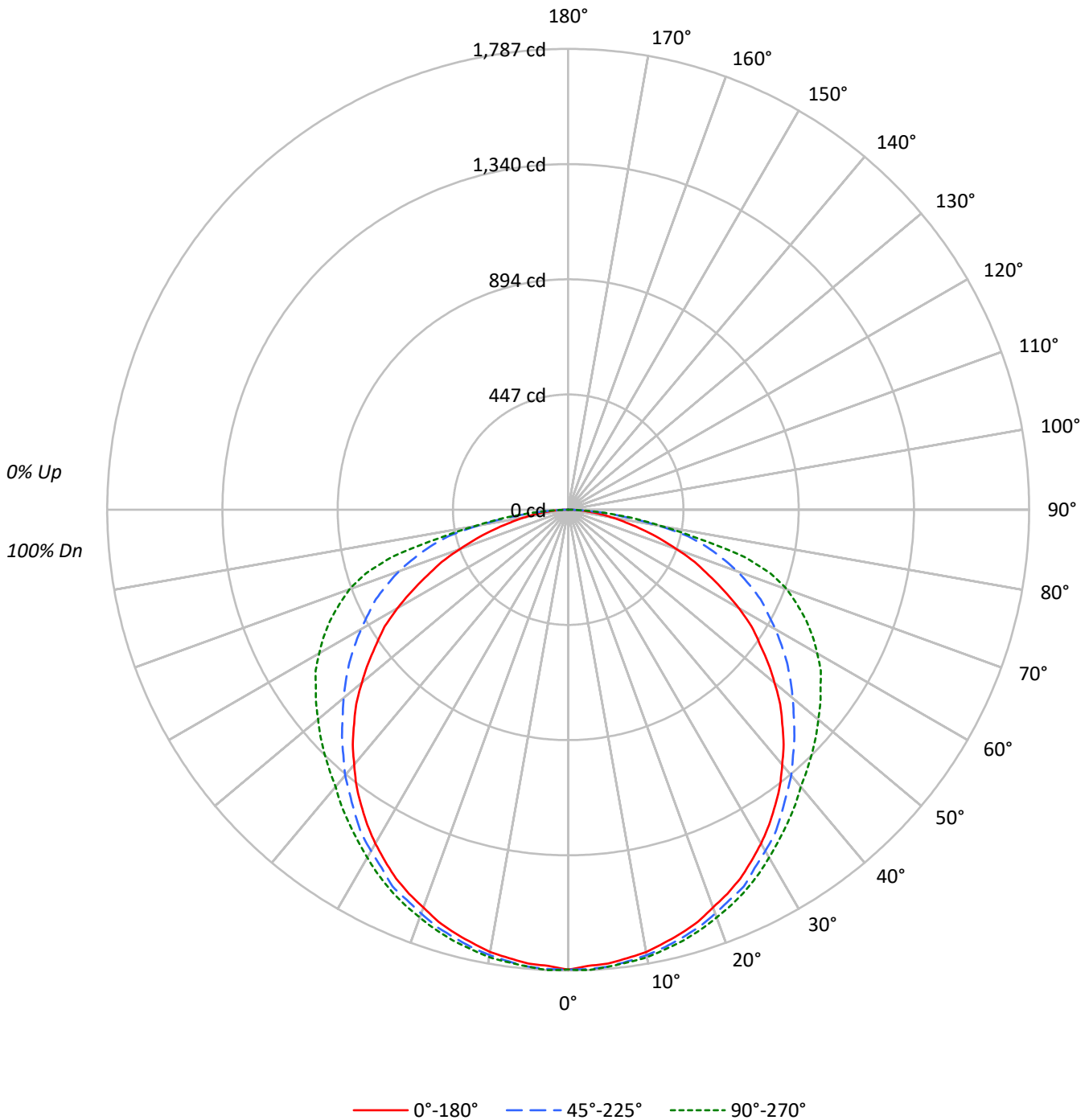
Input Watts (W): 77.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4798	4798	4798
5°	4772	4805	4805
10°	4758	4793	4815
15°	4735	4781	4816
20°	4700	4771	4819
25°	4687	4786	4836
30°	4645	4749	4840
35°	4595	4733	4870
40°	4533	4723	4929
45°	4466	4720	5085
50°	4371	4755	5297
55°	4252	4859	5603
60°	4113	4989	6001
65°	3829	5238	6488
70°	3515	5487	7097
75°	3083	5775	7337
80°	2653	5500	5760
85°	2322	3998	4384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.0
10°-20°	484.3	8.5
20°-30°	738.9	13.0
30°-40°	902.2	15.9
40°-50°	964.6	17.0
50°-60°	931.1	16.4
60°-70°	801.5	14.1
70°-80°	542.3	9.6
80°-90°	143.1	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°	1391.8	24.5
0°-40°	2294.0	40.4
0°-60°	4189.6	73.8
0°-90°	5676.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5676.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1766	1771	1779	1779	1779	168
15°	1700	1704	1716	1725	1729	479
25°	1578	1587	1612	1620	1629	726
35°	1399	1411	1441	1470	1482	875
45°	1173	1194	1240	1303	1336	906
55°	906	935	1036	1140	1194	812
65°	601	660	823	952	1019	598
75°	296	392	555	668	706	318
85°	75	104	130	134	142	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.1	1783.1	1783.1	1783.1	1783.1
2.5°	1770.6	1774.7	1783.1	1783.1	1787.3
5°	1766.4	1770.6	1778.9	1778.9	1778.9
7.5°	1753.9	1758.0	1766.4	1770.6	1770.6
10°	1741.3	1745.5	1753.9	1758.0	1762.2
12.5°	1720.4	1724.6	1737.2	1745.5	1745.5
15°	1699.6	1703.7	1716.3	1724.6	1728.8
17.5°	1674.5	1682.9	1695.4	1703.7	1707.9
20°	1641.1	1649.5	1666.2	1678.7	1682.9
22.5°	1611.9	1620.2	1636.9	1649.5	1657.8
25°	1578.5	1586.8	1611.9	1620.2	1628.6
27.5°	1536.7	1545.1	1565.9	1582.6	1595.2
30°	1495.0	1503.3	1528.4	1549.2	1557.6
32.5°	1449.0	1461.5	1490.8	1507.5	1520.0
35°	1398.9	1411.4	1440.7	1469.9	1482.4
37.5°	1348.8	1361.3	1390.6	1428.1	1444.8
40°	1290.3	1307.0	1344.6	1394.7	1403.1
42.5°	1236.1	1256.9	1290.3	1348.8	1369.7
45°	1173.4	1194.3	1240.2	1302.9	1336.3
47.5°	1115.0	1135.8	1185.9	1261.1	1302.9
50°	1044.0	1073.2	1135.8	1223.5	1265.3
52.5°	977.1	1002.2	1085.7	1181.8	1231.9
55°	906.2	935.4	1035.6	1140.0	1194.3
57.5°	843.5	868.6	981.3	1098.2	1160.9
60°	764.2	797.6	927.0	1052.3	1115.0
62.5°	680.7	730.8	872.8	1002.2	1069.0
65°	601.3	659.8	822.6	952.1	1018.9
67.5°	530.3	593.0	760.0	897.8	960.4
70°	446.8	526.2	697.4	831.0	902.0
72.5°	371.7	459.3	626.4	760.0	822.6
75°	296.5	392.5	555.4	668.1	705.7
77.5°	229.7	321.5	476.0	509.5	513.6
80°	171.2	254.7	354.9	359.1	371.7
82.5°	116.9	179.6	229.7	250.6	254.7
85°	75.2	104.4	129.5	133.6	142.0
87.5°	33.4	37.6	45.9	41.8	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)