

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: P390048

Luminaire Tested: **22CZ2-100VHE-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: P390048
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-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: 5608.0 lumens
Efficiency: N/A
Efficacy: 72.2 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

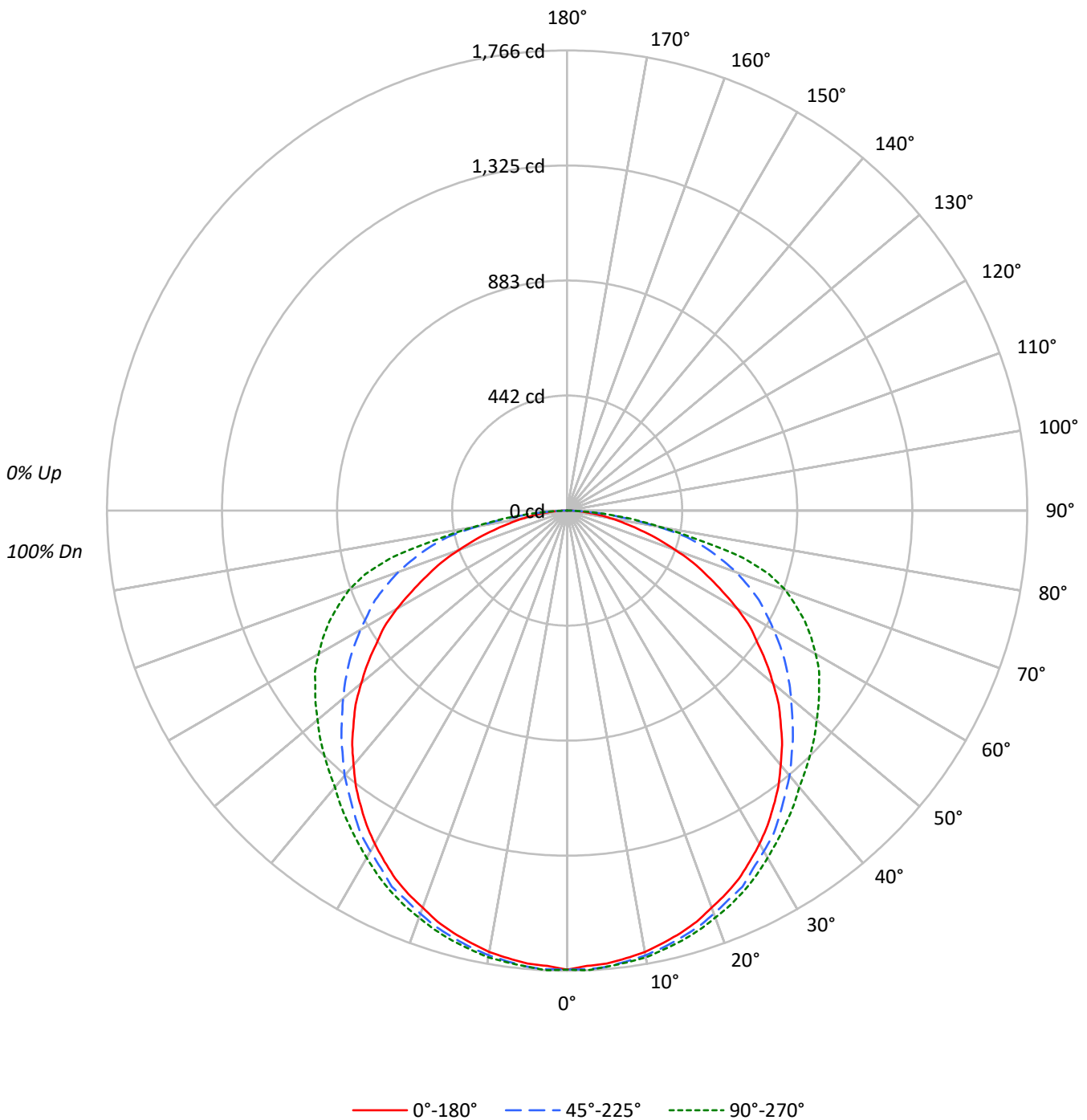
Input Watts (W): 77.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4740	4740	4740
5°	4714	4747	4747
10°	4701	4735	4757
15°	4678	4724	4758
20°	4643	4714	4761
25°	4630	4728	4777
30°	4589	4692	4781
35°	4540	4676	4811
40°	4478	4666	4869
45°	4412	4663	5024
50°	4318	4698	5233
55°	4200	4800	5536
60°	4063	4929	5928
65°	3783	5175	6409
70°	3473	5421	7011
75°	3045	5705	7249
80°	2620	5435	5690
85°	2294	3949	4332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	3.0
10°-20°	478.4	8.5
20°-30°	729.9	13.0
30°-40°	891.3	15.9
40°-50°	953.0	17.0
50°-60°	919.8	16.4
60°-70°	791.8	14.1
70°-80°	535.7	9.6
80°-90°	141.4	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°	1375.0	24.5
0°-40°	2266.3	40.4
0°-60°	4139.1	73.8
0°-90°	5608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1745	1749	1757	1757	1757	166
15°	1679	1683	1696	1704	1708	474
25°	1559	1568	1592	1601	1609	718
35°	1382	1394	1423	1452	1464	865
45°	1159	1180	1225	1287	1320	895
55°	895	924	1023	1126	1180	802
65°	594	652	813	941	1007	591
75°	293	388	549	660	697	314
85°	74	103	128	132	140	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.6	1761.6	1761.6	1761.6	1761.6
2.5°	1749.2	1753.3	1761.6	1761.6	1765.7
5°	1745.1	1749.2	1757.4	1757.4	1757.4
7.5°	1732.7	1736.8	1745.1	1749.2	1749.2
10°	1720.3	1724.4	1732.7	1736.8	1740.9
12.5°	1699.7	1703.8	1716.2	1724.4	1724.4
15°	1679.1	1683.2	1695.6	1703.8	1707.9
17.5°	1654.3	1662.6	1674.9	1683.2	1687.3
20°	1621.3	1629.6	1646.1	1658.4	1662.6
22.5°	1592.4	1600.7	1617.2	1629.6	1637.8
25°	1559.4	1567.7	1592.4	1600.7	1608.9
27.5°	1518.2	1526.4	1547.0	1563.5	1575.9
30°	1476.9	1485.2	1509.9	1530.5	1538.8
32.5°	1431.5	1443.9	1472.8	1489.3	1501.7
35°	1382.0	1394.4	1423.3	1452.2	1464.5
37.5°	1332.5	1344.9	1373.8	1410.9	1427.4
40°	1274.8	1291.3	1328.4	1377.9	1386.2
42.5°	1221.1	1241.8	1274.8	1332.5	1353.2
45°	1159.3	1179.9	1225.3	1287.1	1320.1
47.5°	1101.5	1122.1	1171.6	1245.9	1287.1
50°	1031.4	1060.2	1122.1	1208.8	1250.0
52.5°	965.4	990.1	1072.6	1167.5	1217.0
55°	895.2	924.1	1023.1	1126.2	1179.9
57.5°	833.3	858.1	969.5	1085.0	1146.9
60°	755.0	788.0	915.9	1039.6	1101.5
62.5°	672.4	722.0	862.2	990.1	1056.1
65°	594.1	651.8	812.7	940.6	1006.6
67.5°	523.9	585.8	750.8	887.0	948.9
70°	441.4	519.8	689.0	821.0	891.1
72.5°	367.2	453.8	618.8	750.8	812.7
75°	292.9	387.8	548.7	660.1	697.2
77.5°	226.9	317.7	470.3	503.3	507.4
80°	169.1	251.7	350.7	354.8	367.2
82.5°	115.5	177.4	226.9	247.5	251.7
85°	74.3	103.1	127.9	132.0	140.3
87.5°	33.0	37.1	45.4	41.3	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)