

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: P390650

Luminaire Tested: **22CZ2-75VHE-HRP-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: P390650
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: 22CZ2-75VHE-HRP-UNV-L935-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5423.4 lumens
Efficiency: N/A
Efficacy: 99.1 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

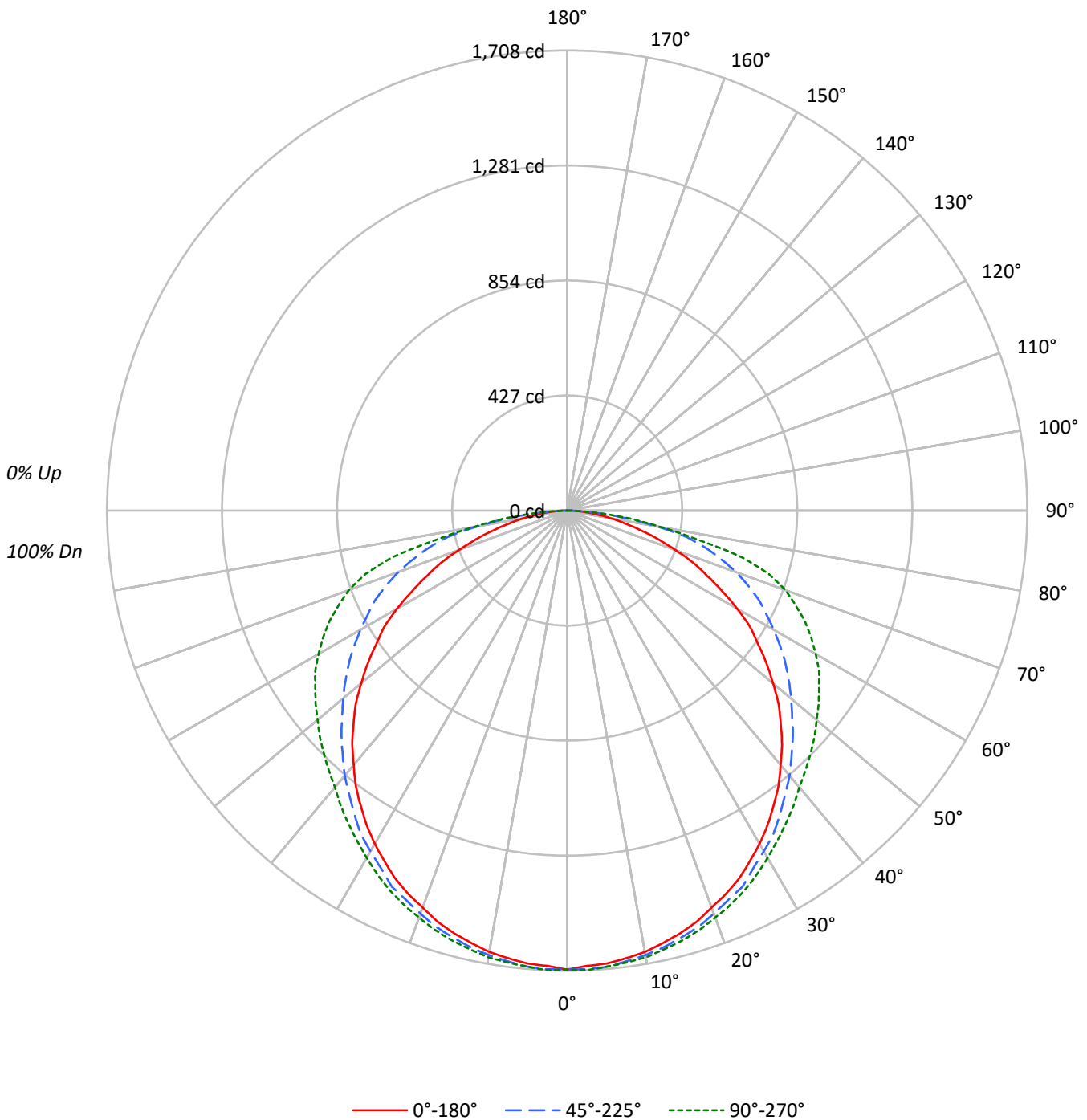
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4584	4584	4584
5°	4559	4591	4591
10°	4546	4579	4600
15°	4524	4568	4601
20°	4490	4559	4604
25°	4478	4573	4620
30°	4438	4537	4624
35°	4391	4522	4653
40°	4331	4513	4709
45°	4266	4509	4859
50°	4176	4543	5061
55°	4062	4642	5353
60°	3929	4767	5733
65°	3658	5005	6199
70°	3359	5242	6781
75°	2946	5517	7011
80°	2535	5255	5503
85°	2217	3819	4187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	3.0
10°-20°	462.7	8.5
20°-30°	705.9	13.0
30°-40°	861.9	15.9
40°-50°	921.6	17.0
50°-60°	889.6	16.4
60°-70°	765.7	14.1
70°-80°	518.1	9.6
80°-90°	136.7	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°	1329.7	24.5
0°-40°	2191.7	40.4
0°-60°	4002.8	73.8
0°-90°	5423.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5423.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1688	1692	1700	1700	1700	160
15°	1624	1628	1640	1648	1652	458
25°	1508	1516	1540	1548	1556	694
35°	1336	1348	1376	1404	1416	836
45°	1121	1141	1185	1245	1277	865
55°	866	894	989	1089	1141	776
65°	574	630	786	910	974	571
75°	283	375	531	638	674	304
85°	72	100	124	128	136	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1691.6	1695.6	1703.6	1703.6	1707.6
5°	1687.6	1691.6	1699.6	1699.6	1699.6
7.5°	1675.7	1679.6	1687.6	1691.6	1691.6
10°	1663.7	1667.7	1675.7	1679.6	1683.6
12.5°	1643.7	1647.7	1659.7	1667.7	1667.7
15°	1623.8	1627.8	1639.7	1647.7	1651.7
17.5°	1599.9	1607.8	1619.8	1627.8	1631.8
20°	1567.9	1575.9	1591.9	1603.8	1607.8
22.5°	1540.0	1548.0	1563.9	1575.9	1583.9
25°	1508.1	1516.1	1540.0	1548.0	1556.0
27.5°	1468.2	1476.2	1496.1	1512.1	1524.0
30°	1428.3	1436.3	1460.2	1480.2	1488.1
32.5°	1384.4	1396.4	1424.3	1440.3	1452.2
35°	1336.5	1348.5	1376.4	1404.4	1416.3
37.5°	1288.7	1300.6	1328.6	1364.5	1380.4
40°	1232.8	1248.8	1284.7	1332.5	1340.5
42.5°	1180.9	1200.9	1232.8	1288.7	1308.6
45°	1121.1	1141.0	1184.9	1244.8	1276.7
47.5°	1065.2	1085.2	1133.1	1204.9	1244.8
50°	997.4	1025.3	1085.2	1169.0	1208.9
52.5°	933.6	957.5	1037.3	1129.1	1176.9
55°	865.8	893.7	989.4	1089.2	1141.0
57.5°	805.9	829.8	937.6	1049.3	1109.1
60°	730.1	762.0	885.7	1005.4	1065.2
62.5°	650.3	698.2	833.8	957.5	1021.4
65°	574.5	630.4	786.0	909.6	973.5
67.5°	506.7	566.5	726.1	857.8	917.6
70°	426.9	502.7	666.3	793.9	861.8
72.5°	355.1	438.9	598.4	726.1	786.0
75°	283.3	375.0	530.6	638.3	674.3
77.5°	219.4	307.2	454.8	486.7	490.7
80°	163.6	243.4	339.1	343.1	355.1
82.5°	111.7	171.6	219.4	239.4	243.4
85°	71.8	99.7	123.7	127.7	135.6
87.5°	31.9	35.9	43.9	39.9	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)