

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: P388365

Luminaire Tested: **22CZ2-55VHE-UNV-L930-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: P388365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-UNV-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4451.7 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

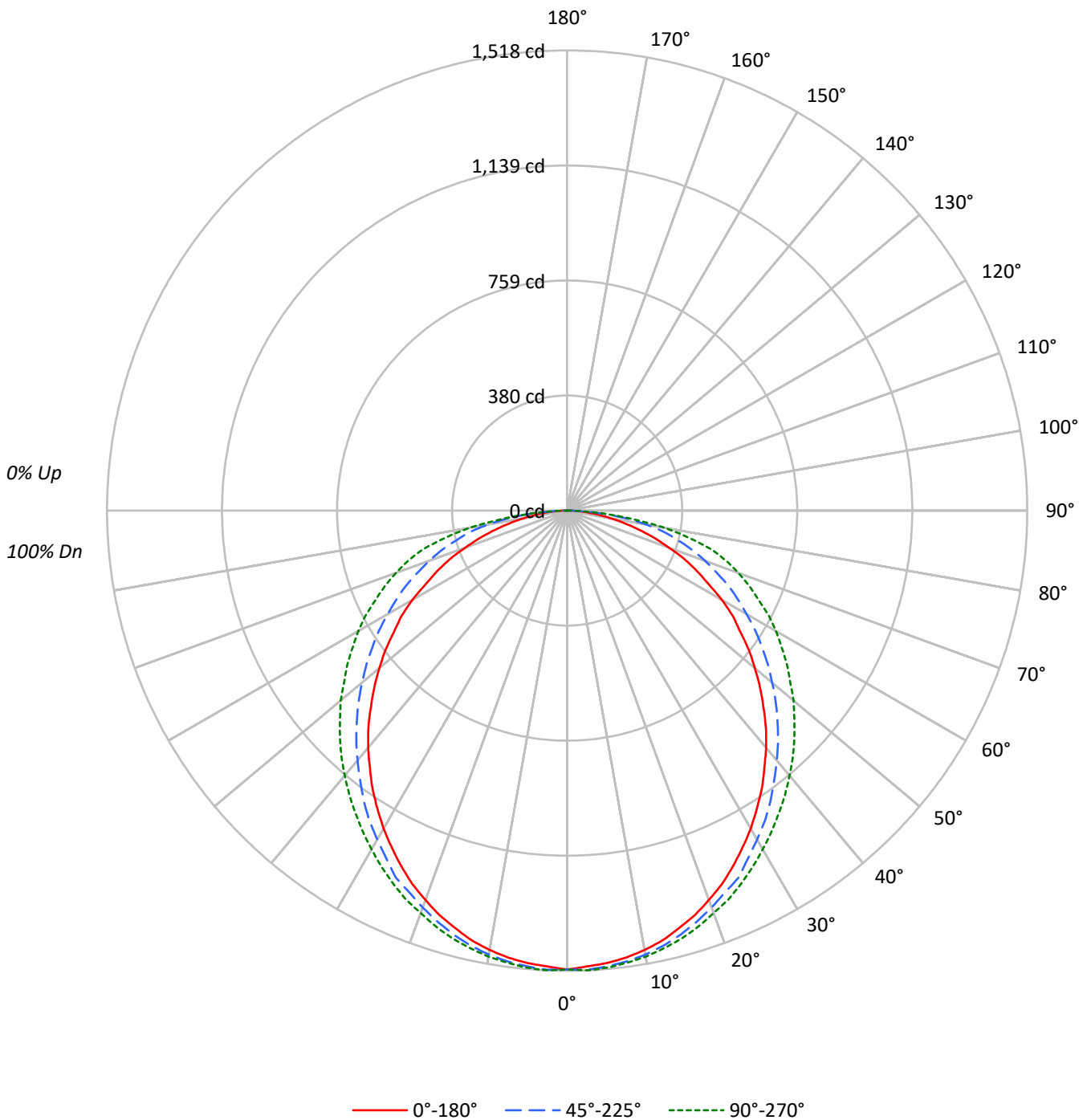
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4073	4073	4073
5°	4047	4077	4089
10°	4022	4064	4082
15°	3973	4034	4070
20°	3914	3990	4046
25°	3844	3967	4032
30°	3764	3893	4009
35°	3677	3843	4001
40°	3586	3778	4009
45°	3484	3735	4035
50°	3384	3696	4081
55°	3268	3679	4152
60°	3172	3678	4280
65°	3013	3738	4436
70°	2810	3809	4722
75°	2573	3941	5102
80°	2241	4108	5024
85°	1961	3653	3989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.2
10°-20°	407.7	9.2
20°-30°	612.1	13.7
30°-40°	731.4	16.4
40°-50°	760.5	17.1
50°-60°	704.9	15.8
60°-70°	578.2	13.0
70°-80°	390.9	8.8
80°-90°	122.8	2.8
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°	1163.0	26.1
0°-40°	1894.4	42.6
0°-60°	3359.8	75.5
0°-90°	4451.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1498	1500	1509	1512	1514	142
15°	1426	1433	1448	1457	1461	402
25°	1295	1306	1336	1352	1358	596
35°	1119	1135	1170	1205	1218	700
45°	916	933	981	1038	1060	707
55°	697	718	784	854	885	626
65°	473	499	587	664	697	468
75°	248	289	379	456	491	263
85°	64	88	118	131	129	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.7	1513.7	1513.7	1513.7	1513.7
2.5°	1504.9	1509.3	1515.9	1518.0	1518.0
5°	1498.3	1500.5	1509.3	1511.5	1513.7
7.5°	1487.4	1491.8	1500.5	1502.7	1504.9
10°	1472.0	1476.4	1487.4	1491.8	1493.9
12.5°	1452.3	1456.7	1469.8	1476.4	1478.6
15°	1426.0	1432.6	1447.9	1456.7	1461.1
17.5°	1399.8	1406.3	1421.7	1434.8	1439.2
20°	1366.9	1382.2	1393.2	1410.7	1412.9
22.5°	1334.0	1342.8	1362.5	1380.0	1388.8
25°	1294.6	1305.6	1336.2	1351.6	1358.1
27.5°	1253.0	1268.3	1292.4	1316.5	1325.3
30°	1211.4	1222.3	1253.0	1281.5	1290.2
32.5°	1165.4	1180.7	1213.6	1242.0	1255.2
35°	1119.4	1134.7	1169.7	1204.8	1217.9
37.5°	1069.0	1086.5	1121.6	1163.2	1180.7
40°	1020.8	1033.9	1075.6	1125.9	1141.3
42.5°	970.4	985.7	1029.6	1084.3	1101.8
45°	915.6	933.2	981.4	1038.3	1060.2
47.5°	863.1	880.6	933.2	990.1	1016.4
50°	808.3	830.2	882.8	948.5	974.8
52.5°	755.7	775.4	834.6	902.5	926.6
55°	696.6	718.5	784.2	854.3	885.0
57.5°	648.4	663.7	736.0	808.3	839.0
60°	589.3	609.0	683.4	760.1	795.2
62.5°	525.7	558.6	635.3	714.1	749.2
65°	473.2	499.4	587.1	663.7	696.6
67.5°	418.4	446.9	532.3	613.3	650.6
70°	357.1	394.3	484.1	565.2	600.2
72.5°	302.3	341.7	433.7	512.6	549.8
75°	247.5	289.2	379.0	455.6	490.7
77.5°	195.0	241.0	328.6	387.7	409.6
80°	144.6	188.4	265.1	306.7	324.2
82.5°	100.8	138.0	195.0	216.9	221.2
85°	63.5	87.6	118.3	131.4	129.2
87.5°	28.5	35.0	43.8	48.2	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)