

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: P388326

Luminaire Tested: **22CZ2-44VHE-UNV-L950-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: P388326
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: 22CZ2-44VHE-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4087.1 lumens
Efficiency: N/A
Efficacy: 125.4 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

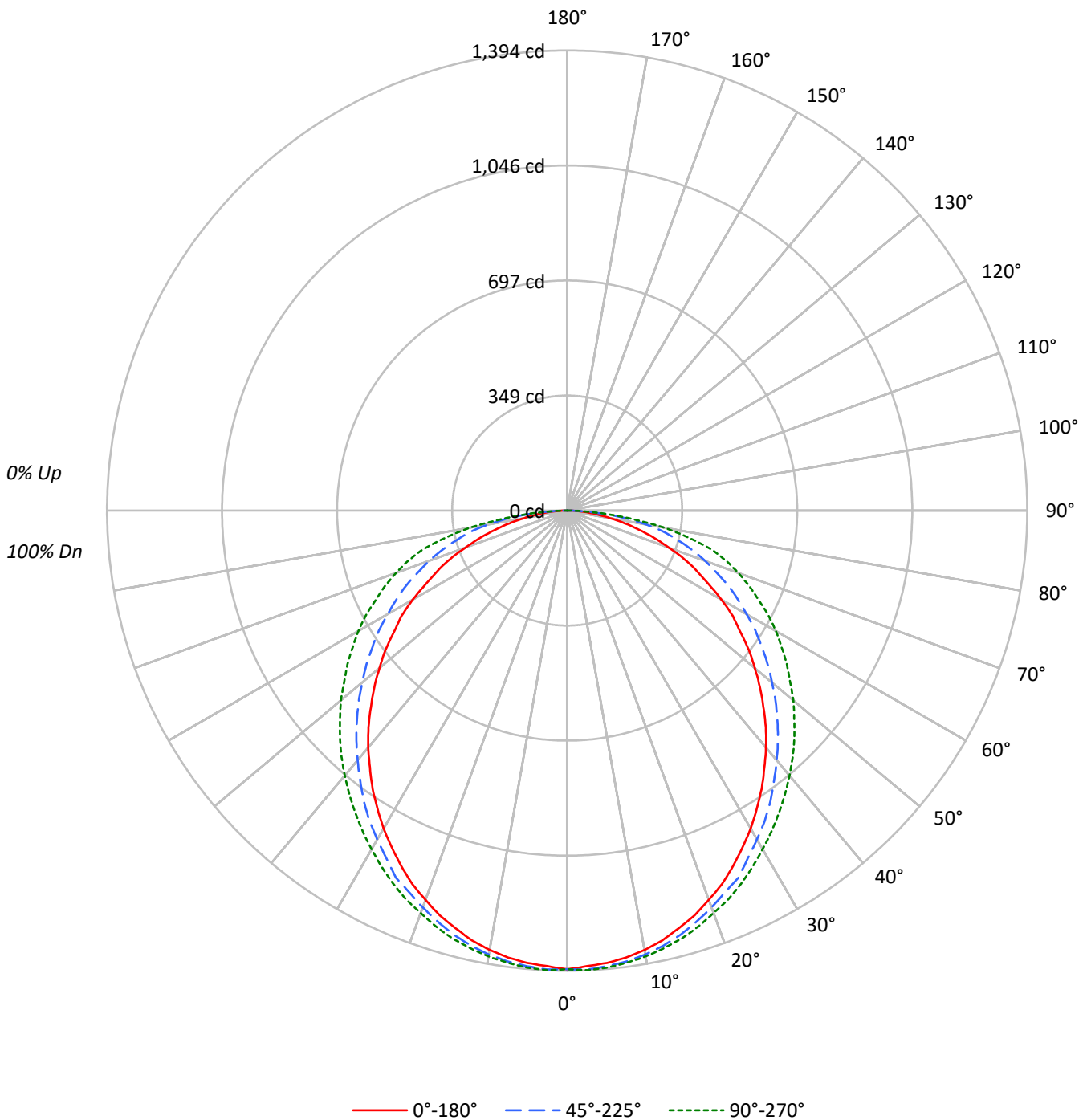
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3740	3740	3740
5°	3716	3743	3754
10°	3693	3731	3748
15°	3647	3704	3737
20°	3594	3663	3715
25°	3529	3643	3702
30°	3456	3575	3681
35°	3376	3528	3673
40°	3292	3469	3681
45°	3199	3429	3704
50°	3107	3393	3747
55°	3000	3378	3812
60°	2912	3377	3929
65°	2766	3432	4072
70°	2579	3497	4335
75°	2363	3617	4684
80°	2056	3770	4612
85°	1800	3353	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.2
10°-20°	374.3	9.2
20°-30°	562.0	13.7
30°-40°	671.5	16.4
40°-50°	698.3	17.1
50°-60°	647.2	15.8
60°-70°	530.8	13.0
70°-80°	358.9	8.8
80°-90°	112.8	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°	1067.7	26.1
0°-40°	1739.2	42.6
0°-60°	3084.6	75.5
0°-90°	4087.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4087.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1376	1378	1386	1388	1390	131
15°	1309	1315	1329	1337	1341	369
25°	1189	1199	1227	1241	1247	547
35°	1028	1042	1074	1106	1118	642
45°	841	857	901	953	973	649
55°	640	660	720	784	812	575
65°	434	458	539	609	640	429
75°	227	266	348	418	450	241
85°	58	80	109	121	119	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.7	1389.7	1389.7	1389.7	1389.7
2.5°	1381.6	1385.7	1391.7	1393.7	1393.7
5°	1375.6	1377.6	1385.7	1387.7	1389.7
7.5°	1365.6	1369.6	1377.6	1379.6	1381.6
10°	1351.5	1355.5	1365.6	1369.6	1371.6
12.5°	1333.4	1337.4	1349.5	1355.5	1357.5
15°	1309.2	1315.3	1329.4	1337.4	1341.4
17.5°	1285.1	1291.1	1305.2	1317.3	1321.3
20°	1254.9	1269.0	1279.1	1295.2	1297.2
22.5°	1224.8	1232.8	1250.9	1267.0	1275.1
25°	1188.6	1198.6	1226.8	1240.9	1246.9
27.5°	1150.4	1164.4	1186.6	1208.7	1216.7
30°	1112.2	1122.2	1150.4	1176.5	1184.6
32.5°	1069.9	1084.0	1114.2	1140.3	1152.4
35°	1027.7	1041.8	1073.9	1106.1	1118.2
37.5°	981.4	997.5	1029.7	1067.9	1084.0
40°	937.2	949.3	987.5	1033.7	1047.8
42.5°	890.9	905.0	945.2	995.5	1011.6
45°	840.7	856.7	901.0	953.3	973.4
47.5°	792.4	808.5	856.7	909.0	933.2
50°	742.1	762.2	810.5	870.8	895.0
52.5°	693.8	711.9	766.2	828.6	850.7
55°	639.5	659.6	720.0	784.3	812.5
57.5°	595.3	609.4	675.7	742.1	770.3
60°	541.0	559.1	627.5	697.9	730.0
62.5°	482.7	512.8	583.2	655.6	687.8
65°	434.4	458.5	539.0	609.4	639.5
67.5°	384.1	410.3	488.7	563.1	597.3
70°	327.8	362.0	444.5	518.9	551.0
72.5°	277.5	313.7	398.2	470.6	504.8
75°	227.3	265.5	347.9	418.3	450.5
77.5°	179.0	221.2	301.7	356.0	376.1
80°	132.7	173.0	243.3	281.6	297.6
82.5°	92.5	126.7	179.0	199.1	203.1
85°	58.3	80.4	108.6	120.7	118.7
87.5°	26.1	32.2	40.2	44.2	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)