

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: P388344

Luminaire Tested: **22CZ2-50VHE-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: P388344
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: 22CZ2-50VHE-UNV-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4203.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

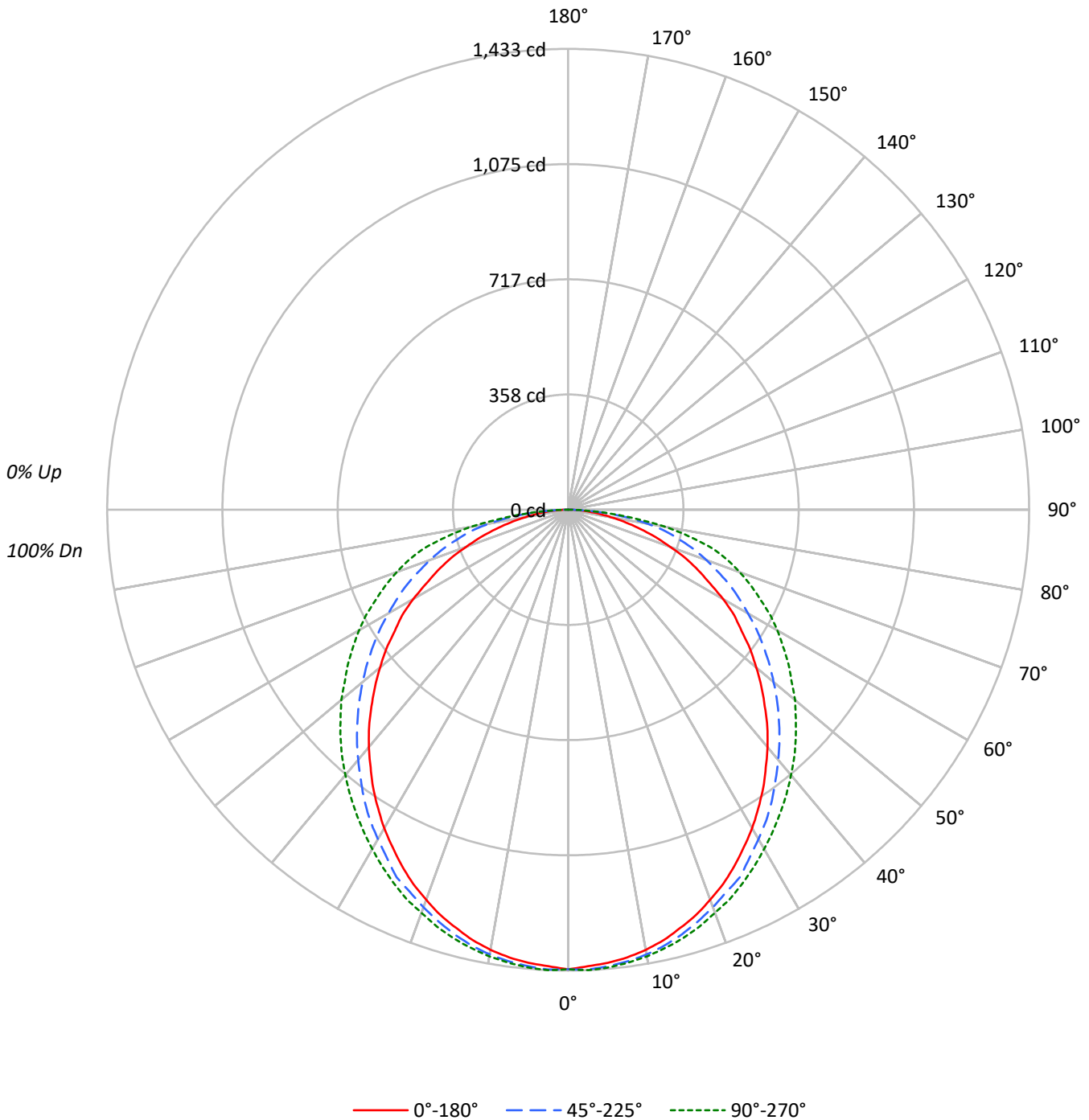
Input Watts (W): 36.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3846	3846	3846
5°	3821	3849	3860
10°	3798	3837	3854
15°	3751	3809	3843
20°	3696	3767	3820
25°	3629	3746	3807
30°	3554	3676	3785
35°	3472	3628	3778
40°	3386	3567	3785
45°	3290	3526	3809
50°	3195	3489	3853
55°	3086	3474	3920
60°	2994	3473	4040
65°	2844	3529	4188
70°	2652	3596	4459
75°	2430	3720	4817
80°	2115	3877	4744
85°	1853	3449	3767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.2
10°-20°	385.0	9.2
20°-30°	577.9	13.7
30°-40°	690.5	16.4
40°-50°	718.0	17.1
50°-60°	665.5	15.8
60°-70°	545.9	13.0
70°-80°	369.0	8.8
80°-90°	116.0	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°	1098.0	26.1
0°-40°	1788.5	42.6
0°-60°	3172.1	75.5
0°-90°	4203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1415	1417	1425	1427	1429	134
15°	1346	1353	1367	1375	1380	380
25°	1222	1233	1262	1276	1282	563
35°	1057	1071	1104	1138	1150	661
45°	864	881	926	980	1001	668
55°	658	678	740	807	836	591
65°	447	472	554	627	658	442
75°	234	273	358	430	463	248
85°	60	83	112	124	122	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.1	1429.1	1429.1	1429.1	1429.1
2.5°	1420.8	1425.0	1431.2	1433.2	1433.2
5°	1414.6	1416.7	1425.0	1427.0	1429.1
7.5°	1404.3	1408.4	1416.7	1418.8	1420.8
10°	1389.8	1393.9	1404.3	1408.4	1410.5
12.5°	1371.2	1375.3	1387.7	1393.9	1396.0
15°	1346.4	1352.6	1367.1	1375.3	1379.5
17.5°	1321.6	1327.8	1342.2	1354.6	1358.8
20°	1290.5	1305.0	1315.3	1331.9	1334.0
22.5°	1259.5	1267.8	1286.4	1302.9	1311.2
25°	1222.3	1232.6	1261.6	1276.1	1282.3
27.5°	1183.0	1197.5	1220.2	1243.0	1251.2
30°	1143.7	1154.0	1183.0	1209.9	1218.1
32.5°	1100.3	1114.7	1145.8	1172.6	1185.1
35°	1056.8	1071.3	1104.4	1137.5	1149.9
37.5°	1009.3	1025.8	1058.9	1098.2	1114.7
40°	963.8	976.2	1015.5	1063.0	1077.5
42.5°	916.2	930.7	972.0	1023.7	1040.3
45°	864.5	881.0	926.5	980.3	1001.0
47.5°	814.9	831.4	881.0	934.8	959.6
50°	763.2	783.8	833.5	895.5	920.3
52.5°	713.5	732.1	788.0	852.1	874.8
55°	657.7	678.4	740.4	806.6	835.5
57.5°	612.2	626.7	694.9	763.2	792.1
60°	556.3	574.9	645.3	717.7	750.7
62.5°	496.4	527.4	599.8	674.2	707.3
65°	446.7	471.5	554.3	626.7	657.7
67.5°	395.0	421.9	502.6	579.1	614.2
70°	337.1	372.3	457.1	533.6	566.7
72.5°	285.4	322.6	409.5	483.9	519.1
75°	233.7	273.0	357.8	430.2	463.3
77.5°	184.1	227.5	310.2	366.1	386.7
80°	136.5	177.9	250.2	289.5	306.1
82.5°	95.1	130.3	184.1	204.7	208.9
85°	60.0	82.7	111.7	124.1	122.0
87.5°	26.9	33.1	41.4	45.5	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)