

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: P390671

Luminaire Tested: **22CZ2-75VHE-RDP-UNV-L930-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: P390671
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-RDP-UNV-L930-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4193.5 lumens
Efficiency: N/A
Efficacy: 76.7 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

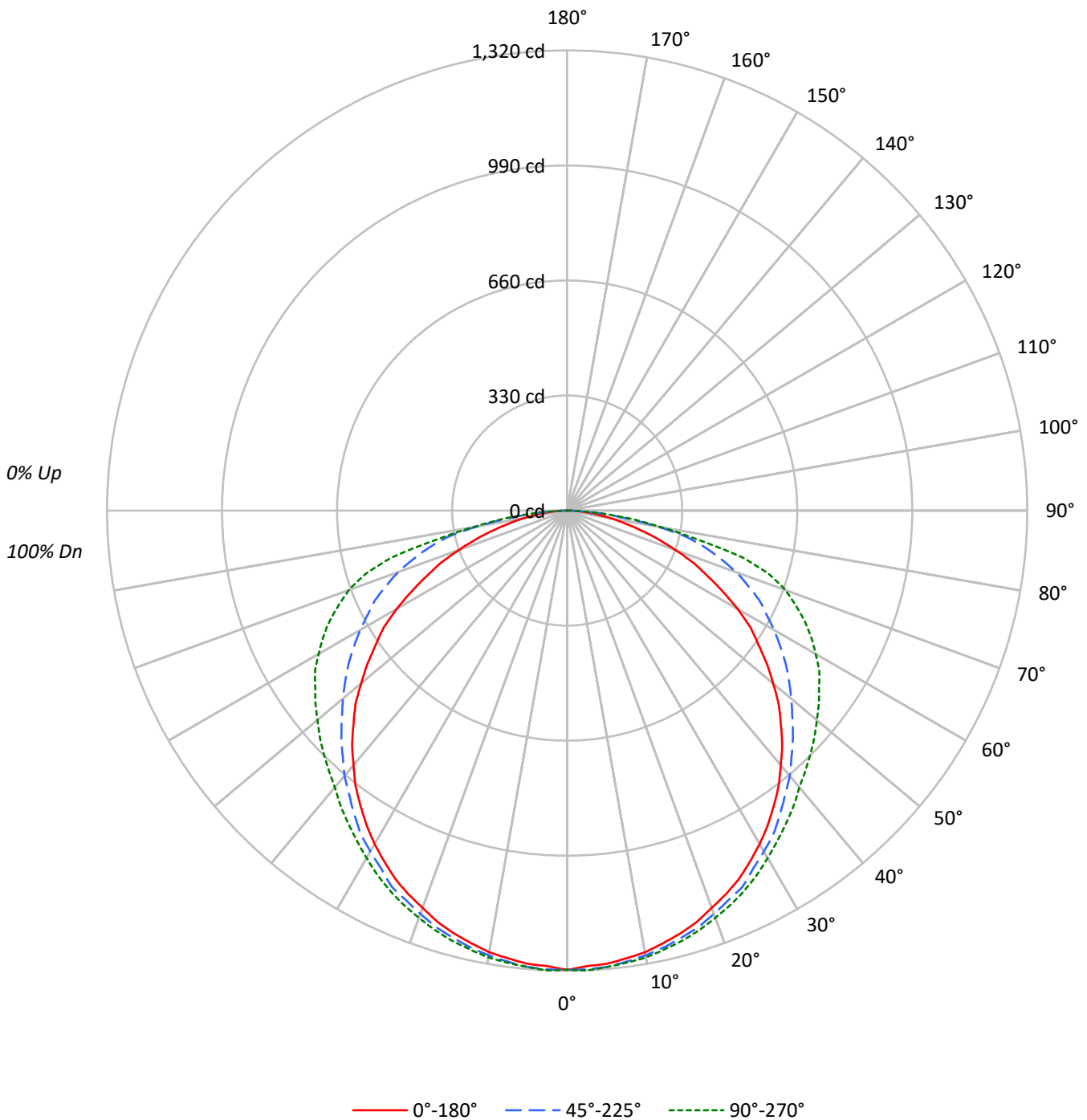
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3545	3545	3545
5°	3525	3550	3550
10°	3515	3540	3557
15°	3498	3532	3558
20°	3472	3525	3560
25°	3462	3536	3572
30°	3432	3508	3576
35°	3395	3496	3597
40°	3348	3489	3641
45°	3299	3487	3757
50°	3229	3513	3913
55°	3141	3590	4139
60°	3038	3686	4433
65°	2828	3869	4793
70°	2597	4054	5242
75°	2277	4266	5420
80°	1960	4063	4255
85°	1714	2952	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	3.0
10°-20°	357.8	8.5
20°-30°	545.8	13.0
30°-40°	666.5	15.9
40°-50°	712.6	17.0
50°-60°	687.8	16.4
60°-70°	592.1	14.1
70°-80°	400.6	9.6
80°-90°	105.7	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°	1028.2	24.5
0°-40°	1694.7	40.4
0°-60°	3095.1	73.8
0°-90°	4193.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1305	1308	1314	1314	1314	124
15°	1256	1259	1268	1274	1277	354
25°	1166	1172	1191	1197	1203	537
35°	1033	1043	1064	1086	1095	647
45°	867	882	916	962	987	669
55°	669	691	765	842	882	600
65°	444	487	608	703	753	442
75°	219	290	410	494	521	235
85°	56	77	96	99	105	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1317.3	1317.3	1317.3	1317.3	1317.3
2.5°	1308.0	1311.1	1317.3	1317.3	1320.3
5°	1304.9	1308.0	1314.2	1314.2	1314.2
7.5°	1295.7	1298.7	1304.9	1308.0	1308.0
10°	1286.4	1289.5	1295.7	1298.7	1301.8
12.5°	1271.0	1274.1	1283.3	1289.5	1289.5
15°	1255.6	1258.6	1267.9	1274.1	1277.1
17.5°	1237.0	1243.2	1252.5	1258.6	1261.7
20°	1212.4	1218.5	1230.9	1240.1	1243.2
22.5°	1190.8	1196.9	1209.3	1218.5	1224.7
25°	1166.1	1172.3	1190.8	1196.9	1203.1
27.5°	1135.2	1141.4	1156.8	1169.2	1178.4
30°	1104.4	1110.6	1129.1	1144.5	1150.7
32.5°	1070.5	1079.7	1101.3	1113.6	1122.9
35°	1033.4	1042.7	1064.3	1085.9	1095.1
37.5°	996.4	1005.7	1027.3	1055.0	1067.4
40°	953.2	965.6	993.3	1030.4	1036.5
42.5°	913.1	928.6	953.2	996.4	1011.8
45°	866.9	882.3	916.2	962.5	987.2
47.5°	823.7	839.1	876.1	931.6	962.5
50°	771.2	792.8	839.1	903.9	934.7
52.5°	721.9	740.4	802.1	873.0	910.0
55°	669.4	691.0	765.1	842.2	882.3
57.5°	623.1	641.7	725.0	811.3	857.6
60°	564.5	589.2	684.8	777.4	823.7
62.5°	502.8	539.9	644.7	740.4	789.7
65°	444.2	487.4	607.7	703.4	752.7
67.5°	391.8	438.1	561.5	663.3	709.5
70°	330.1	388.7	515.2	613.9	666.3
72.5°	274.6	339.3	462.7	561.5	607.7
75°	219.0	290.0	410.3	493.6	521.3
77.5°	169.7	237.5	351.7	376.4	379.4
80°	126.5	188.2	262.2	265.3	274.6
82.5°	86.4	132.7	169.7	185.1	188.2
85°	55.5	77.1	95.6	98.7	104.9
87.5°	24.7	27.8	33.9	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)