

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: P390672

Luminaire Tested: **22CZ2-75VHE-RDP-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: P390672  
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-L935-CD1-SDWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4192.7 lumens  
Efficiency: N/A  
Efficacy: 76.6 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

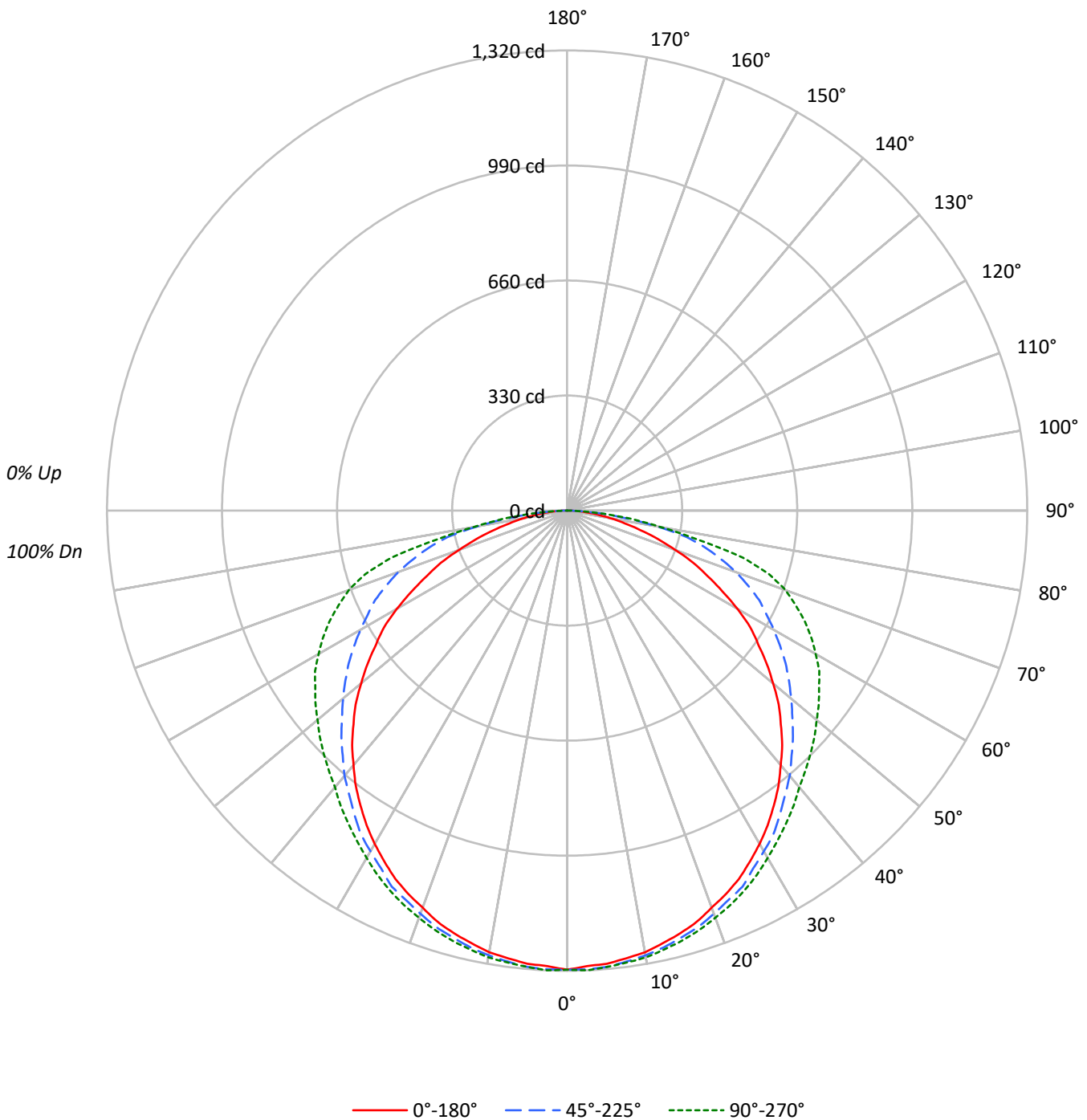
Input Watts (W): 54.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3544	3544	3544
5°	3524	3549	3549
10°	3515	3540	3557
15°	3497	3532	3557
20°	3471	3524	3560
25°	3462	3535	3572
30°	3431	3508	3575
35°	3394	3496	3597
40°	3348	3489	3640
45°	3298	3486	3756
50°	3228	3512	3912
55°	3140	3589	4138
60°	3038	3685	4432
65°	2828	3869	4792
70°	2596	4053	5242
75°	2277	4265	5419
80°	1960	4063	4254
85°	1714	2952	3239



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.6	3.0
10°-20°	357.7	8.5
20°-30°	545.7	13.0
30°-40°	666.3	15.9
40°-50°	712.5	17.0
50°-60°	687.7	16.4
60°-70°	592.0	14.1
70°-80°	400.5	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°	1028.0	24.5
0°-40°	1694.3	40.4
0°-60°	3094.5	73.8
0°-90°	4192.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.7	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°	1255	1258	1268	1274	1277	354
25°	1166	1172	1190	1197	1203	537
35°	1033	1042	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°	1317.0	1317.0	1317.0	1317.0	1317.0
2.5°	1307.7	1310.8	1317.0	1317.0	1320.1
5°	1304.7	1307.7	1313.9	1313.9	1313.9
7.5°	1295.4	1298.5	1304.7	1307.7	1307.7
10°	1286.2	1289.2	1295.4	1298.5	1301.6
12.5°	1270.7	1273.8	1283.1	1289.2	1289.2
15°	1255.3	1258.4	1267.7	1273.8	1276.9
17.5°	1236.8	1243.0	1252.2	1258.4	1261.5
20°	1212.1	1218.3	1230.6	1239.9	1243.0
22.5°	1190.5	1196.7	1209.0	1218.3	1224.5
25°	1165.9	1172.0	1190.5	1196.7	1202.9
27.5°	1135.0	1141.2	1156.6	1169.0	1178.2
30°	1104.2	1110.4	1128.9	1144.3	1150.4
32.5°	1070.3	1079.5	1101.1	1113.4	1122.7
35°	1033.2	1042.5	1064.1	1085.7	1094.9
37.5°	996.2	1005.5	1027.1	1054.8	1067.2
40°	953.1	965.4	993.1	1030.2	1036.3
42.5°	913.0	928.4	953.1	996.2	1011.7
45°	866.7	882.1	916.0	962.3	987.0
47.5°	823.5	838.9	875.9	931.5	962.3
50°	771.1	792.7	838.9	903.7	934.5
52.5°	721.7	740.2	801.9	872.9	909.9
55°	669.3	690.9	764.9	842.0	882.1
57.5°	623.0	641.5	724.8	811.2	857.4
60°	564.4	589.1	684.7	777.2	823.5
62.5°	502.7	539.8	644.6	740.2	789.6
65°	444.1	487.3	607.6	703.2	752.6
67.5°	391.7	438.0	561.3	663.1	709.4
70°	330.0	388.6	515.1	613.8	666.2
72.5°	274.5	339.3	462.6	561.3	607.6
75°	219.0	289.9	410.2	493.5	521.2
77.5°	169.6	237.5	351.6	376.3	379.4
80°	126.5	188.1	262.2	265.3	274.5
82.5°	86.4	132.6	169.6	185.1	188.1
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)