

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: P390621

Luminaire Tested: **22CZ2-70VHE-RDP-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: P390621
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: 22CZ2-70VHE-RDP-UNV-L930-CD1-SDWPD1-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: 3799.1 lumens
Efficiency: N/A
Efficacy: 75.5 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

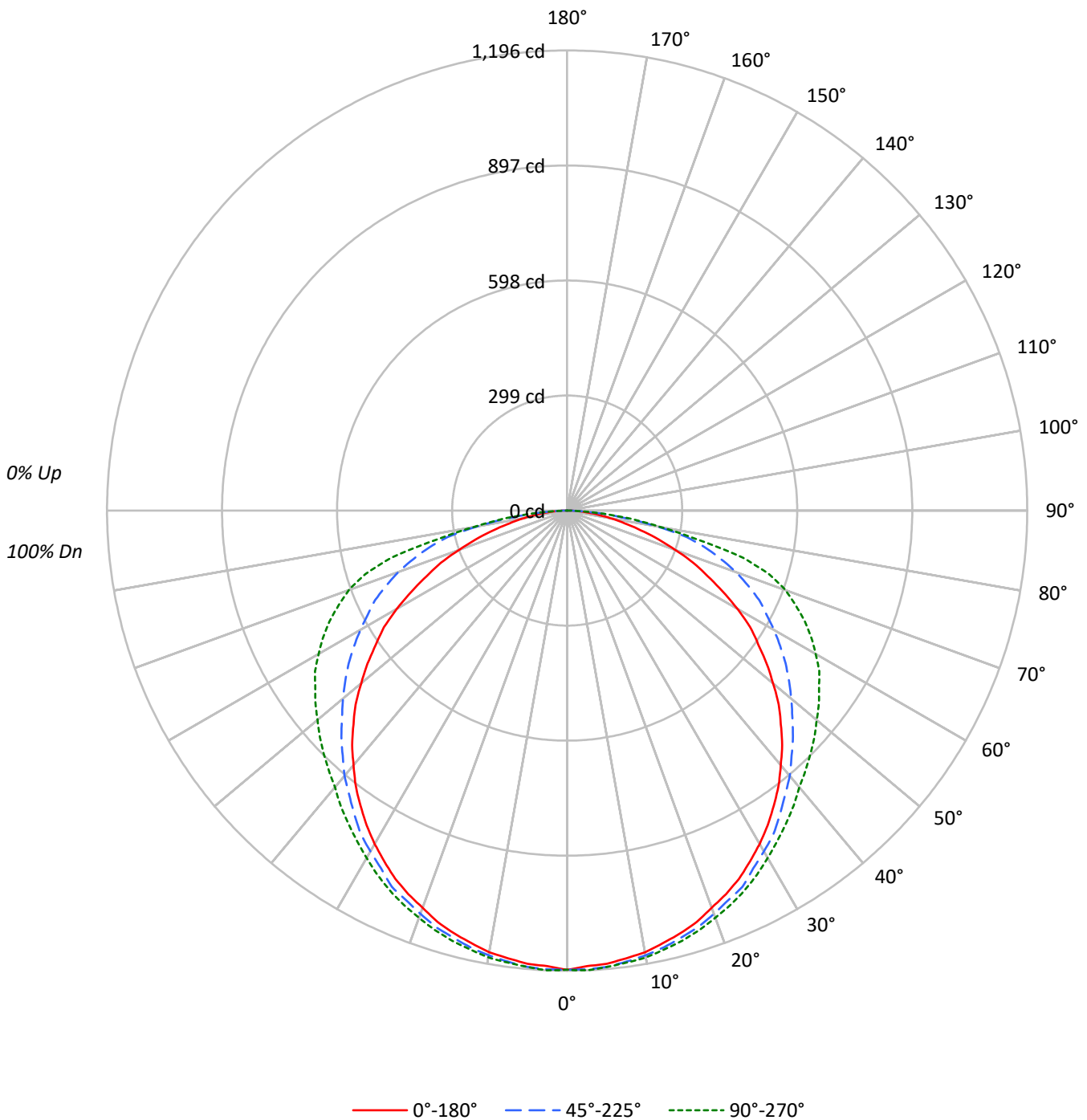
Input Watts (W): 50.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3211	3211	3211
5°	3193	3216	3216
10°	3184	3207	3223
15°	3169	3200	3223
20°	3145	3193	3225
25°	3137	3203	3236
30°	3109	3178	3239
35°	3075	3167	3259
40°	3034	3161	3299
45°	2989	3159	3403
50°	2925	3183	3545
55°	2845	3252	3750
60°	2752	3339	4016
65°	2562	3506	4342
70°	2353	3672	4750
75°	2063	3865	4911
80°	1776	3682	3854
85°	1553	2674	2933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	3.0
10°-20°	324.1	8.5
20°-30°	494.5	13.0
30°-40°	603.8	15.9
40°-50°	645.6	17.0
50°-60°	623.1	16.4
60°-70°	536.4	14.1
70°-80°	362.9	9.6
80°-90°	95.8	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°	931.5	24.5
0°-40°	1535.3	40.4
0°-60°	2804.0	73.8
0°-90°	3799.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1182	1185	1191	1191	1191	112
15°	1138	1140	1149	1154	1157	321
25°	1056	1062	1079	1084	1090	486
35°	936	945	964	984	992	586
45°	785	799	830	872	894	606
55°	606	626	693	763	799	543
65°	402	442	551	637	682	400
75°	198	263	372	447	472	213
85°	50	70	87	89	95	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.4	1193.4	1193.4	1193.4	1193.4
2.5°	1185.0	1187.8	1193.4	1193.4	1196.2
5°	1182.2	1185.0	1190.6	1190.6	1190.6
7.5°	1173.8	1176.6	1182.2	1185.0	1185.0
10°	1165.4	1168.2	1173.8	1176.6	1179.4
12.5°	1151.4	1154.2	1162.6	1168.2	1168.2
15°	1137.5	1140.3	1148.6	1154.2	1157.0
17.5°	1120.7	1126.3	1134.7	1140.3	1143.1
20°	1098.3	1103.9	1115.1	1123.5	1126.3
22.5°	1078.8	1084.4	1095.5	1103.9	1109.5
25°	1056.4	1062.0	1078.8	1084.4	1090.0
27.5°	1028.5	1034.1	1048.0	1059.2	1067.6
30°	1000.5	1006.1	1022.9	1036.9	1042.4
32.5°	969.8	978.2	997.7	1008.9	1017.3
35°	936.2	944.6	964.2	983.8	992.1
37.5°	902.7	911.1	930.7	955.8	967.0
40°	863.6	874.8	899.9	933.5	939.0
42.5°	827.2	841.2	863.6	902.7	916.7
45°	785.3	799.3	830.0	872.0	894.3
47.5°	746.2	760.2	793.7	844.0	872.0
50°	698.7	718.3	760.2	818.9	846.8
52.5°	654.0	670.7	726.6	790.9	824.5
55°	606.5	626.0	693.1	763.0	799.3
57.5°	564.5	581.3	656.8	735.0	776.9
60°	511.4	533.8	620.4	704.3	746.2
62.5°	455.5	489.1	584.1	670.7	715.5
65°	402.4	441.6	550.6	637.2	681.9
67.5°	354.9	396.9	508.6	600.9	642.8
70°	299.0	352.1	466.7	556.2	603.7
72.5°	248.7	307.4	419.2	508.6	550.6
75°	198.4	262.7	371.7	447.2	472.3
77.5°	153.7	215.2	318.6	341.0	343.8
80°	114.6	170.5	237.6	240.3	248.7
82.5°	78.3	120.2	153.7	167.7	170.5
85°	50.3	69.9	86.6	89.4	95.0
87.5°	22.4	25.2	30.7	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)