

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: P390484

Luminaire Tested: **22CZ2-55VHE-RDP-UNV-L940-CD1-SWPD1-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: P390484  
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: 22CZ2-55VHE-RDP-UNV-L940-CD1-SWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3137.7 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

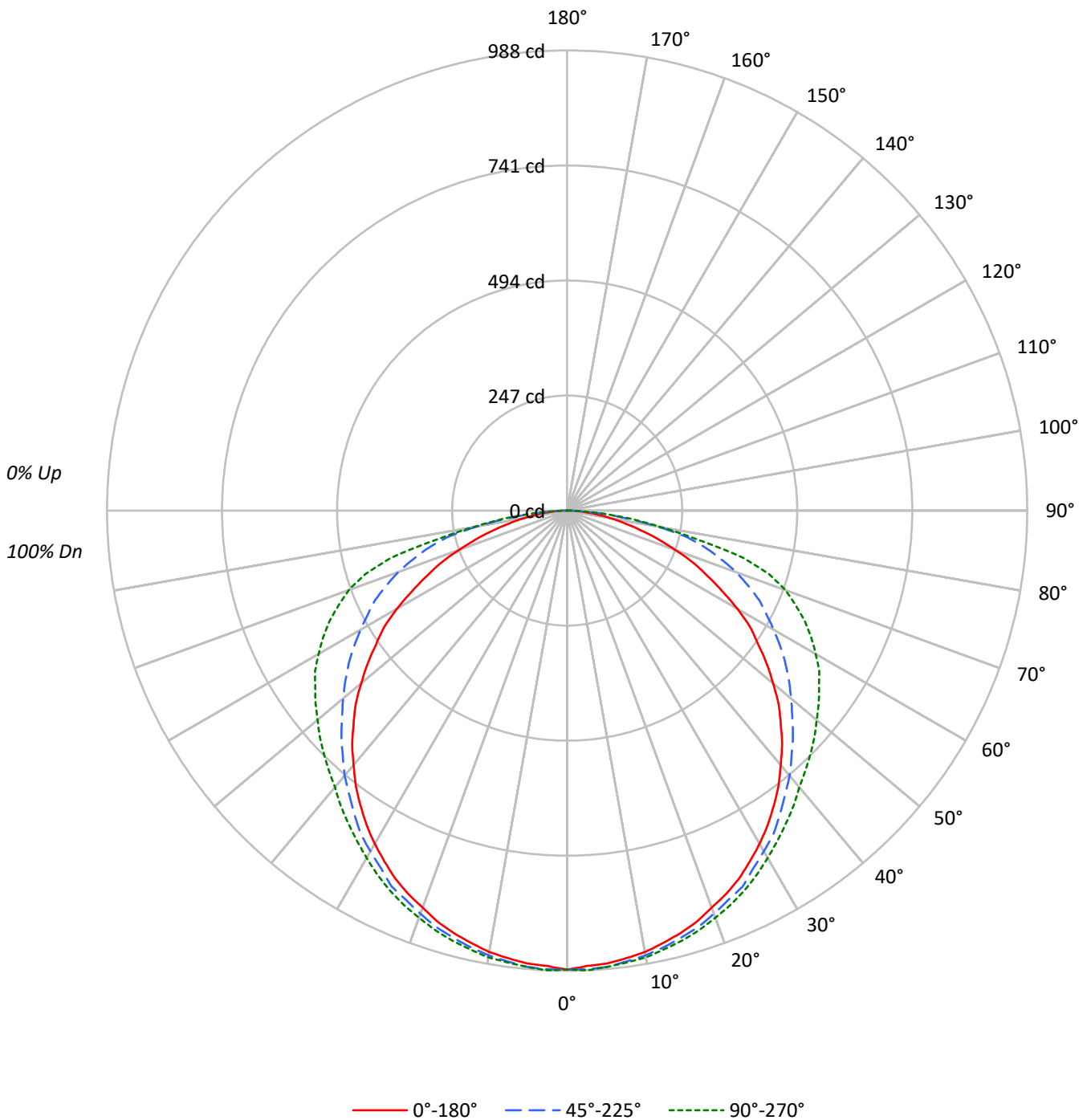
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2652	2652	2652
5°	2638	2656	2656
10°	2630	2649	2662
15°	2617	2643	2662
20°	2598	2637	2664
25°	2591	2646	2673
30°	2568	2625	2675
35°	2540	2616	2692
40°	2505	2611	2725
45°	2468	2609	2811
50°	2416	2628	2928
55°	2350	2685	3097
60°	2273	2758	3317
65°	2117	2895	3586
70°	1943	3033	3923
75°	1704	3192	4056
80°	1466	3040	3183
85°	1281	2211	2424



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	3.0
10°-20°	267.7	8.5
20°-30°	408.4	13.0
30°-40°	498.7	15.9
40°-50°	533.2	17.0
50°-60°	514.6	16.4
60°-70°	443.0	14.1
70°-80°	299.7	9.6
80°-90°	79.1	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°	769.3	24.5
0°-40°	1268.0	40.4
0°-60°	2315.8	73.8
0°-90°	3137.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	976	979	983	983	983	93
15°	939	942	949	953	956	265
25°	872	877	891	896	900	402
35°	773	780	796	812	819	484
45°	649	660	686	720	739	501
55°	501	517	572	630	660	449
65°	332	365	455	526	563	331
75°	164	217	307	369	390	176
85°	42	58	72	74	78	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	985.6	985.6	985.6	985.6	985.6
2.5°	978.7	981.0	985.6	985.6	987.9
5°	976.4	978.7	983.3	983.3	983.3
7.5°	969.4	971.8	976.4	978.7	978.7
10°	962.5	964.8	969.4	971.8	974.1
12.5°	951.0	953.3	960.2	964.8	964.8
15°	939.4	941.8	948.7	953.3	955.6
17.5°	925.6	930.2	937.1	941.8	944.1
20°	907.1	911.7	921.0	927.9	930.2
22.5°	891.0	895.6	904.8	911.7	916.4
25°	872.5	877.1	891.0	895.6	900.2
27.5°	849.4	854.0	865.6	874.8	881.7
30°	826.3	831.0	844.8	856.3	861.0
32.5°	800.9	807.9	824.0	833.3	840.2
35°	773.3	780.2	796.3	812.5	819.4
37.5°	745.6	752.5	768.6	789.4	798.6
40°	713.2	722.5	743.2	770.9	775.6
42.5°	683.2	694.8	713.2	745.6	757.1
45°	648.6	660.1	685.5	720.2	738.6
47.5°	616.3	627.8	655.5	697.1	720.2
50°	577.1	593.2	627.8	676.3	699.4
52.5°	540.1	554.0	600.1	653.2	680.9
55°	500.9	517.0	572.4	630.1	660.1
57.5°	466.3	480.1	542.4	607.1	641.7
60°	422.4	440.9	512.4	581.7	616.3
62.5°	376.2	403.9	482.4	554.0	590.9
65°	332.4	364.7	454.7	526.3	563.2
67.5°	293.1	327.8	420.1	496.3	530.9
70°	247.0	290.8	385.5	459.3	498.6
72.5°	205.4	253.9	346.2	420.1	454.7
75°	163.9	217.0	307.0	369.3	390.1
77.5°	127.0	177.7	263.1	281.6	283.9
80°	94.6	140.8	196.2	198.5	205.4
82.5°	64.6	99.3	127.0	138.5	140.8
85°	41.5	57.7	71.6	73.9	78.5
87.5°	18.5	20.8	25.4	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)