

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: P390478

Luminaire Tested: **22CZ2-55VHE-RDP-UNV-L930-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: P390478  
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-L930-CD1-SWPD1-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: 3030.6 lumens  
Efficiency: N/A  
Efficacy: 76.9 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

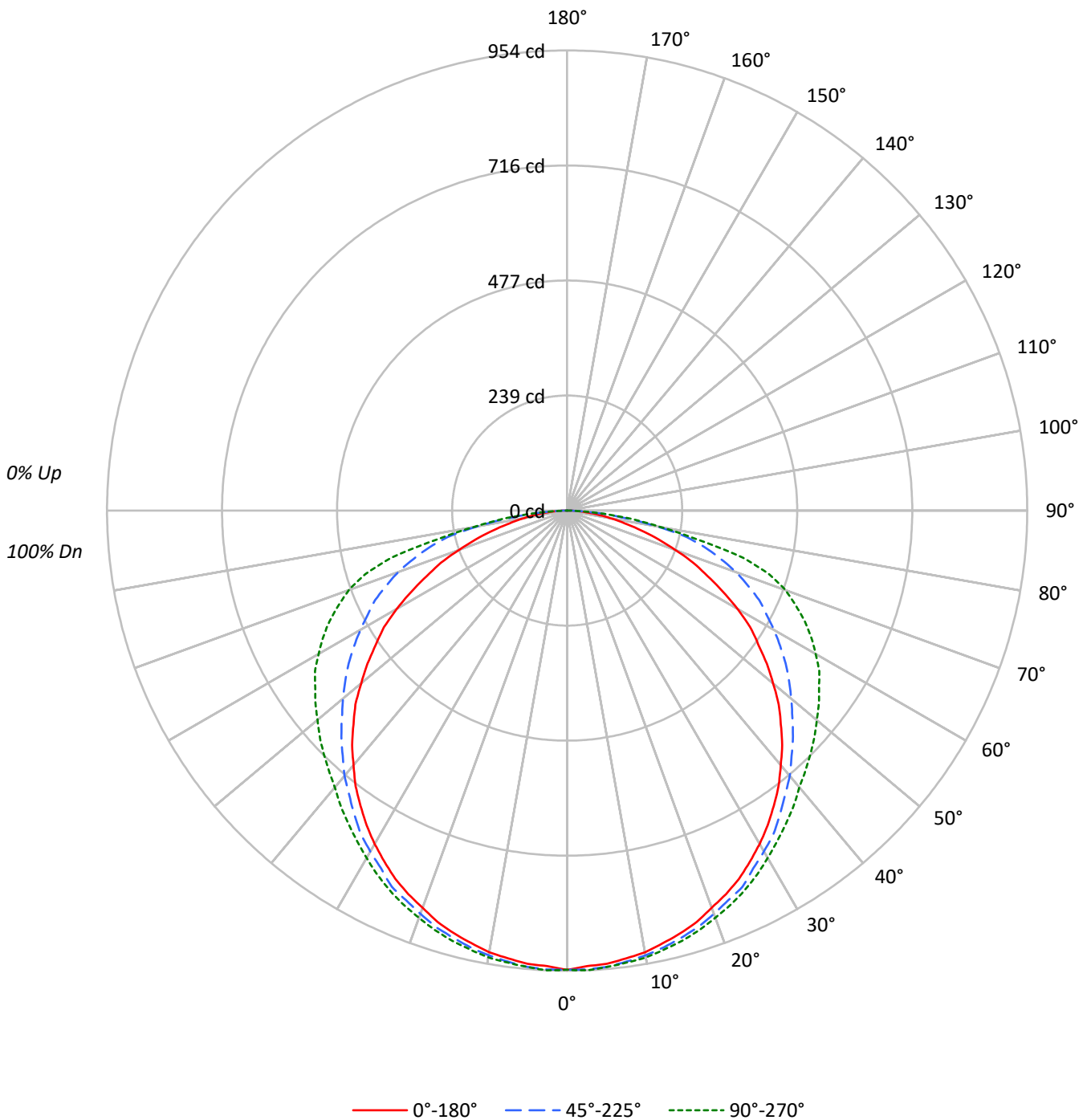
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2562	2562	2562
5°	2547	2565	2565
10°	2540	2559	2571
15°	2528	2553	2571
20°	2509	2547	2573
25°	2502	2555	2582
30°	2480	2536	2584
35°	2454	2527	2600
40°	2420	2522	2631
45°	2384	2520	2715
50°	2334	2539	2828
55°	2270	2594	2991
60°	2196	2664	3204
65°	2044	2797	3464
70°	1876	2929	3789
75°	1646	3083	3918
80°	1416	2937	3075
85°	1238	2133	2340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	3.0
10°-20°	258.6	8.5
20°-30°	394.5	13.0
30°-40°	481.7	15.9
40°-50°	515.0	17.0
50°-60°	497.1	16.4
60°-70°	427.9	14.1
70°-80°	289.5	9.6
80°-90°	76.4	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°	743.1	24.5
0°-40°	1224.7	40.4
0°-60°	2236.8	73.8
0°-90°	3030.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	943	945	950	950	950	90
15°	907	910	916	921	923	256
25°	843	847	861	865	870	388
35°	747	754	769	785	791	467
45°	626	638	662	696	713	484
55°	484	499	553	609	638	434
65°	321	352	439	508	544	319
75°	158	210	296	357	377	170
85°	40	56	69	71	76	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	952.0	952.0	952.0	952.0	952.0
2.5°	945.3	947.5	952.0	952.0	954.2
5°	943.0	945.3	949.7	949.7	949.7
7.5°	936.4	938.6	943.0	945.3	945.3
10°	929.7	931.9	936.4	938.6	940.8
12.5°	918.5	920.8	927.4	931.9	931.9
15°	907.4	909.6	916.3	920.8	923.0
17.5°	894.0	898.5	905.1	909.6	911.8
20°	876.2	880.6	889.5	896.2	898.5
22.5°	860.6	865.0	873.9	880.6	885.1
25°	842.7	847.2	860.6	865.0	869.5
27.5°	820.4	824.9	836.0	845.0	851.6
30°	798.1	802.6	816.0	827.1	831.6
32.5°	773.6	780.3	795.9	804.8	811.5
35°	746.9	753.5	769.2	784.8	791.4
37.5°	720.1	726.8	742.4	762.5	771.4
40°	688.9	697.8	717.9	744.6	749.1
42.5°	659.9	671.1	688.9	720.1	731.3
45°	626.5	637.6	662.1	695.6	713.4
47.5°	595.3	606.4	633.2	673.3	695.6
50°	557.4	573.0	606.4	653.2	675.5
52.5°	521.7	535.1	579.7	630.9	657.7
55°	483.8	499.4	552.9	608.6	637.6
57.5°	450.3	463.7	523.9	586.3	619.8
60°	408.0	425.8	494.9	561.8	595.3
62.5°	363.4	390.1	465.9	535.1	570.7
65°	321.0	352.2	439.2	508.3	544.0
67.5°	283.1	316.6	405.8	479.3	512.8
70°	238.5	280.9	372.3	443.7	481.6
72.5°	198.4	245.2	334.4	405.8	439.2
75°	158.3	209.6	296.5	356.7	376.8
77.5°	122.6	171.7	254.2	272.0	274.2
80°	91.4	136.0	189.5	191.7	198.4
82.5°	62.4	95.9	122.6	133.8	136.0
85°	40.1	55.7	69.1	71.3	75.8
87.5°	17.8	20.1	24.5	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)