

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: P390481

Luminaire Tested: **22CZ2-55VHE-RDP-UNV-L935-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: P390481  
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-L935-CD1-SWPD1-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: 3105.6 lumens  
Efficiency: N/A  
Efficacy: 78.8 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

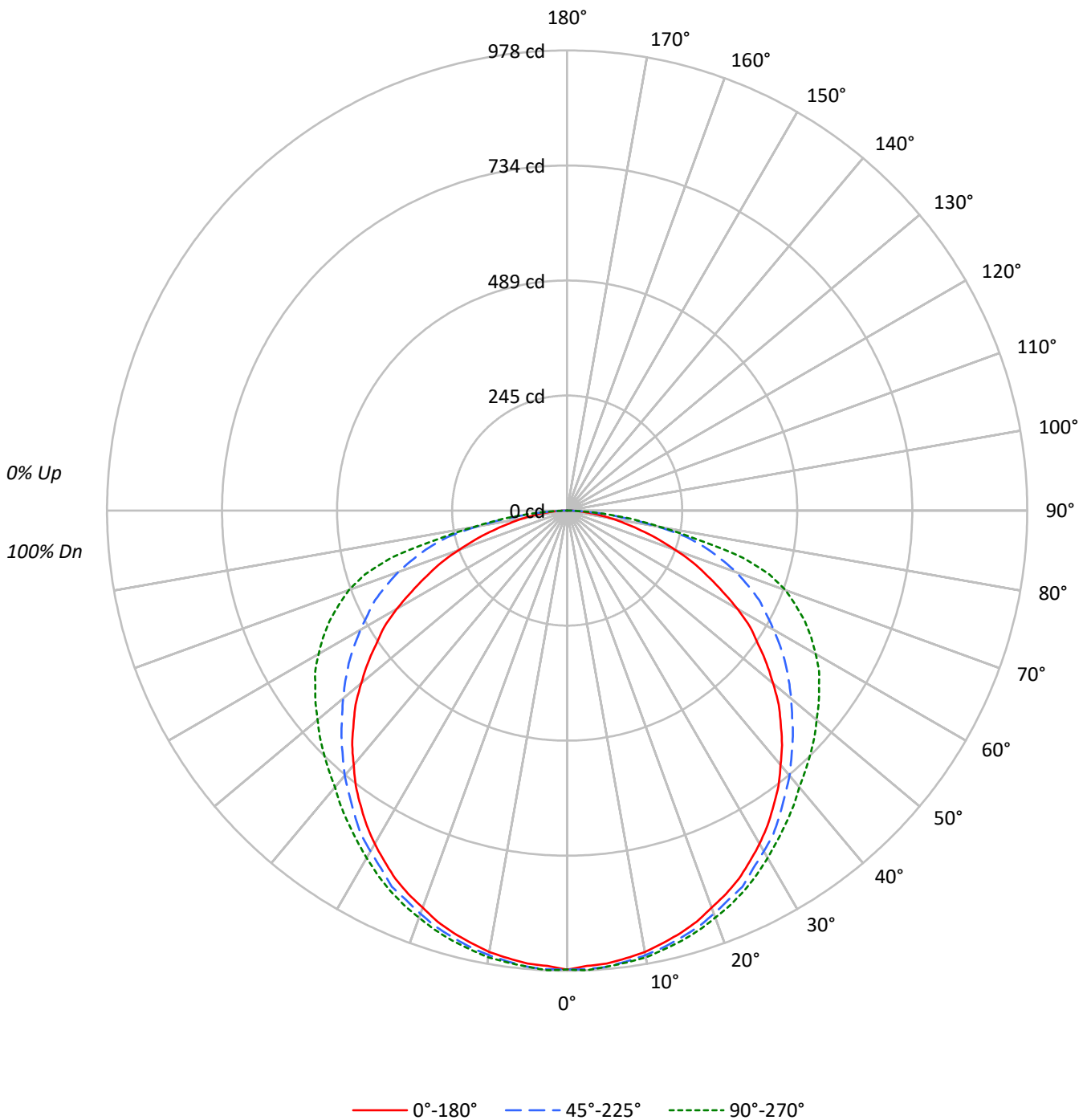
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2625	2625	2625
5°	2610	2629	2629
10°	2603	2622	2634
15°	2590	2616	2635
20°	2571	2611	2637
25°	2564	2619	2646
30°	2541	2598	2648
35°	2514	2589	2664
40°	2480	2584	2696
45°	2443	2582	2782
50°	2391	2601	2898
55°	2326	2658	3065
60°	2250	2730	3283
65°	2095	2866	3549
70°	1924	3002	3883
75°	1686	3160	4014
80°	1452	3009	3150
85°	1269	2186	2399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	3.0
10°-20°	264.9	8.5
20°-30°	404.2	13.0
30°-40°	493.6	15.9
40°-50°	527.7	17.0
50°-60°	509.4	16.4
60°-70°	438.5	14.1
70°-80°	296.7	9.6
80°-90°	78.3	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°	761.5	24.5
0°-40°	1255.0	40.4
0°-60°	2292.1	73.8
0°-90°	3105.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	966	969	973	973	973	92
15°	930	932	939	944	946	262
25°	864	868	882	886	891	397
35°	765	772	788	804	811	479
45°	642	653	678	713	731	496
55°	496	512	567	624	653	444
65°	329	361	450	521	557	327
75°	162	215	304	366	386	174
85°	41	57	71	73	78	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	975.5	975.5	975.5	975.5	975.5
2.5°	968.7	971.0	975.5	975.5	977.8
5°	966.4	968.7	973.2	973.2	973.2
7.5°	959.5	961.8	966.4	968.7	968.7
10°	952.7	955.0	959.5	961.8	964.1
12.5°	941.3	943.5	950.4	955.0	955.0
15°	929.8	932.1	939.0	943.5	945.8
17.5°	916.1	920.7	927.5	932.1	934.4
20°	897.8	902.4	911.6	918.4	920.7
22.5°	881.9	886.4	895.6	902.4	907.0
25°	863.6	868.1	881.9	886.4	891.0
27.5°	840.7	845.3	856.7	865.9	872.7
30°	817.9	822.5	836.2	847.6	852.2
32.5°	792.8	799.6	815.6	824.7	831.6
35°	765.3	772.2	788.2	804.2	811.0
37.5°	737.9	744.8	760.8	781.3	790.5
40°	705.9	715.1	735.6	763.1	767.6
42.5°	676.2	687.7	705.9	737.9	749.3
45°	642.0	653.4	678.5	712.8	731.1
47.5°	610.0	621.4	648.8	689.9	712.8
50°	571.1	587.1	621.4	669.4	692.2
52.5°	534.6	548.3	594.0	646.5	674.0
55°	495.8	511.7	566.6	623.7	653.4
57.5°	461.5	475.2	536.9	600.8	635.1
60°	418.1	436.4	507.2	575.7	610.0
62.5°	372.4	399.8	477.5	548.3	584.9
65°	329.0	361.0	450.1	520.9	557.4
67.5°	290.1	324.4	415.8	491.2	525.5
70°	244.5	287.9	381.5	454.6	493.5
72.5°	203.3	251.3	342.7	415.8	450.1
75°	162.2	214.8	303.9	365.5	386.1
77.5°	125.7	175.9	260.4	278.7	281.0
80°	93.7	139.4	194.2	196.5	203.3
82.5°	64.0	98.2	125.7	137.1	139.4
85°	41.1	57.1	70.8	73.1	77.7
87.5°	18.3	20.6	25.1	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)