

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: P390246

Luminaire Tested: **22CZ2-29VHE-RDP-UNV-L950-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: P390246  
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: 22CZ2-29VHE-RDP-UNV-L950-CD1-SDWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1852.8 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

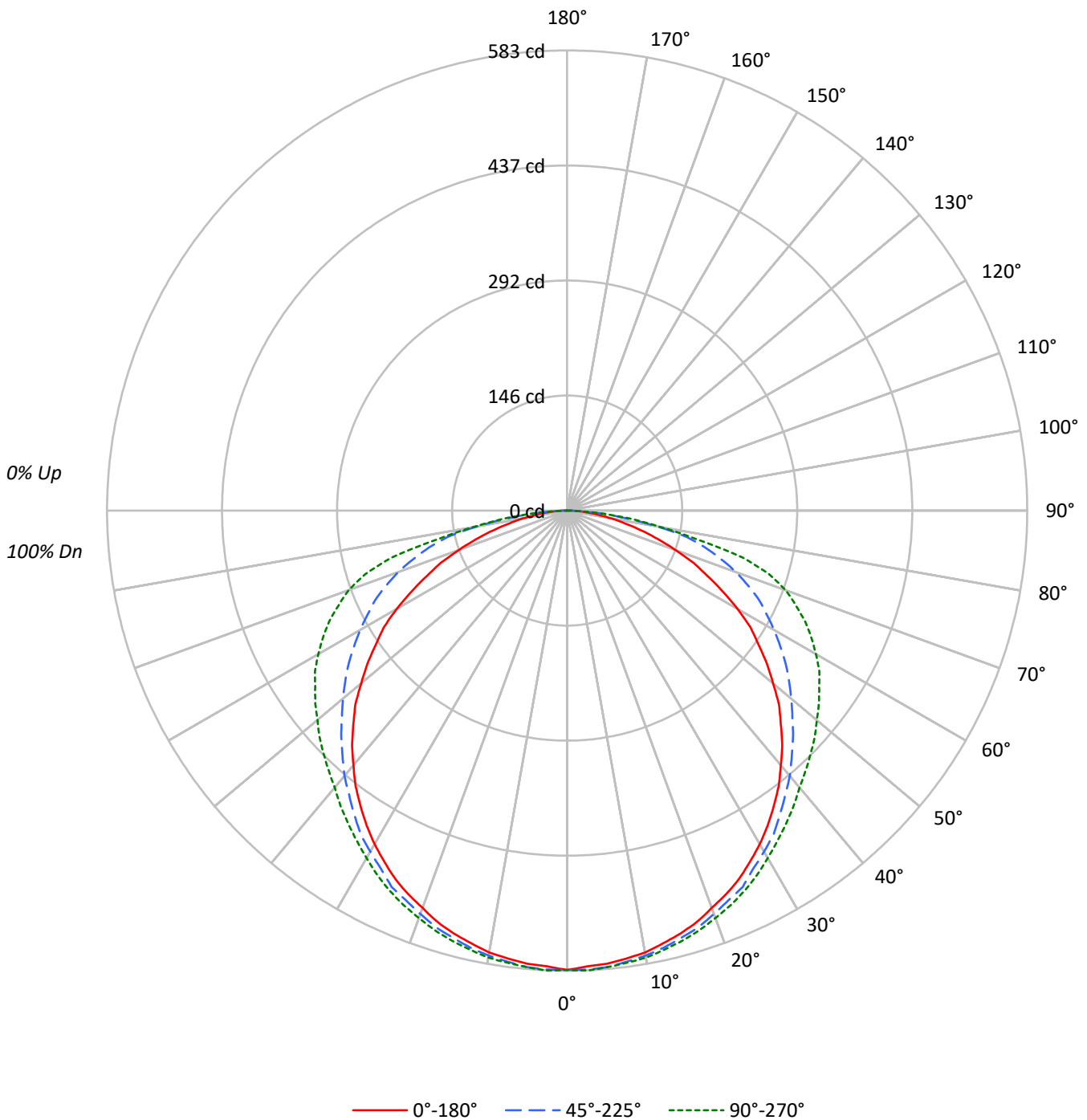
Input Watts (W): 21.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1566	1566	1566
5°	1557	1568	1568
10°	1553	1564	1572
15°	1545	1561	1572
20°	1534	1557	1573
25°	1530	1562	1578
30°	1516	1550	1580
35°	1500	1545	1590
40°	1480	1542	1609
45°	1458	1541	1660
50°	1426	1552	1729
55°	1388	1586	1829
60°	1342	1629	1958
65°	1250	1710	2118
70°	1147	1791	2316
75°	1006	1885	2394
80°	866	1796	1880
85°	756	1306	1430



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	3.0
10°-20°	158.1	8.5
20°-30°	241.2	13.0
30°-40°	294.5	15.9
40°-50°	314.9	17.0
50°-60°	303.9	16.4
60°-70°	261.6	14.1
70°-80°	177.0	9.6
80°-90°	46.7	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°	454.3	24.5
0°-40°	748.7	40.4
0°-60°	1367.5	73.8
0°-90°	1852.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1852.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	576	578	581	581	581	55
15°	555	556	560	563	564	157
25°	515	518	526	529	532	237
35°	457	461	470	480	484	286
45°	383	390	405	425	436	296
55°	296	305	338	372	390	265
65°	196	215	268	311	333	195
75°	97	128	181	218	230	104
85°	24	34	42	44	46	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	582.0	582.0	582.0	582.0	582.0
2.5°	577.9	579.3	582.0	582.0	583.4
5°	576.5	577.9	580.6	580.6	580.6
7.5°	572.5	573.8	576.5	577.9	577.9
10°	568.4	569.7	572.5	573.8	575.2
12.5°	561.6	562.9	567.0	569.7	569.7
15°	554.7	556.1	560.2	562.9	564.3
17.5°	546.6	549.3	553.4	556.1	557.5
20°	535.7	538.4	543.8	547.9	549.3
22.5°	526.1	528.8	534.3	538.4	541.1
25°	515.2	517.9	526.1	528.8	531.6
27.5°	501.6	504.3	511.1	516.6	520.7
30°	488.0	490.7	498.9	505.7	508.4
32.5°	473.0	477.0	486.6	492.0	496.1
35°	456.6	460.7	470.2	479.8	483.9
37.5°	440.2	444.3	453.9	466.1	471.6
40°	421.2	426.6	438.9	455.2	458.0
42.5°	403.4	410.3	421.2	440.2	447.1
45°	383.0	389.8	404.8	425.3	436.2
47.5°	363.9	370.7	387.1	411.6	425.3
50°	340.7	350.3	370.7	399.4	413.0
52.5°	318.9	327.1	354.4	385.7	402.1
55°	295.8	305.3	338.0	372.1	389.8
57.5°	275.3	283.5	320.3	358.5	378.9
60°	249.4	260.3	302.6	343.5	363.9
62.5°	222.2	238.5	284.9	327.1	348.9
65°	196.3	215.4	268.5	310.8	332.6
67.5°	173.1	193.5	248.1	293.0	313.5
70°	145.8	171.7	227.6	271.2	294.4
72.5°	121.3	149.9	204.4	248.1	268.5
75°	96.8	128.1	181.3	218.1	230.3
77.5°	75.0	105.0	155.4	166.3	167.6
80°	55.9	83.1	115.9	117.2	121.3
82.5°	38.2	58.6	75.0	81.8	83.1
85°	24.5	34.1	42.3	43.6	46.3
87.5°	10.9	12.3	15.0	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)