

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: P390247

Luminaire Tested: **22CZ2-29VHE-RDP-UNV-L950-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: P390247
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-SWPD1-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: 1875.4 lumens
Efficiency: N/A
Efficacy: 86.4 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

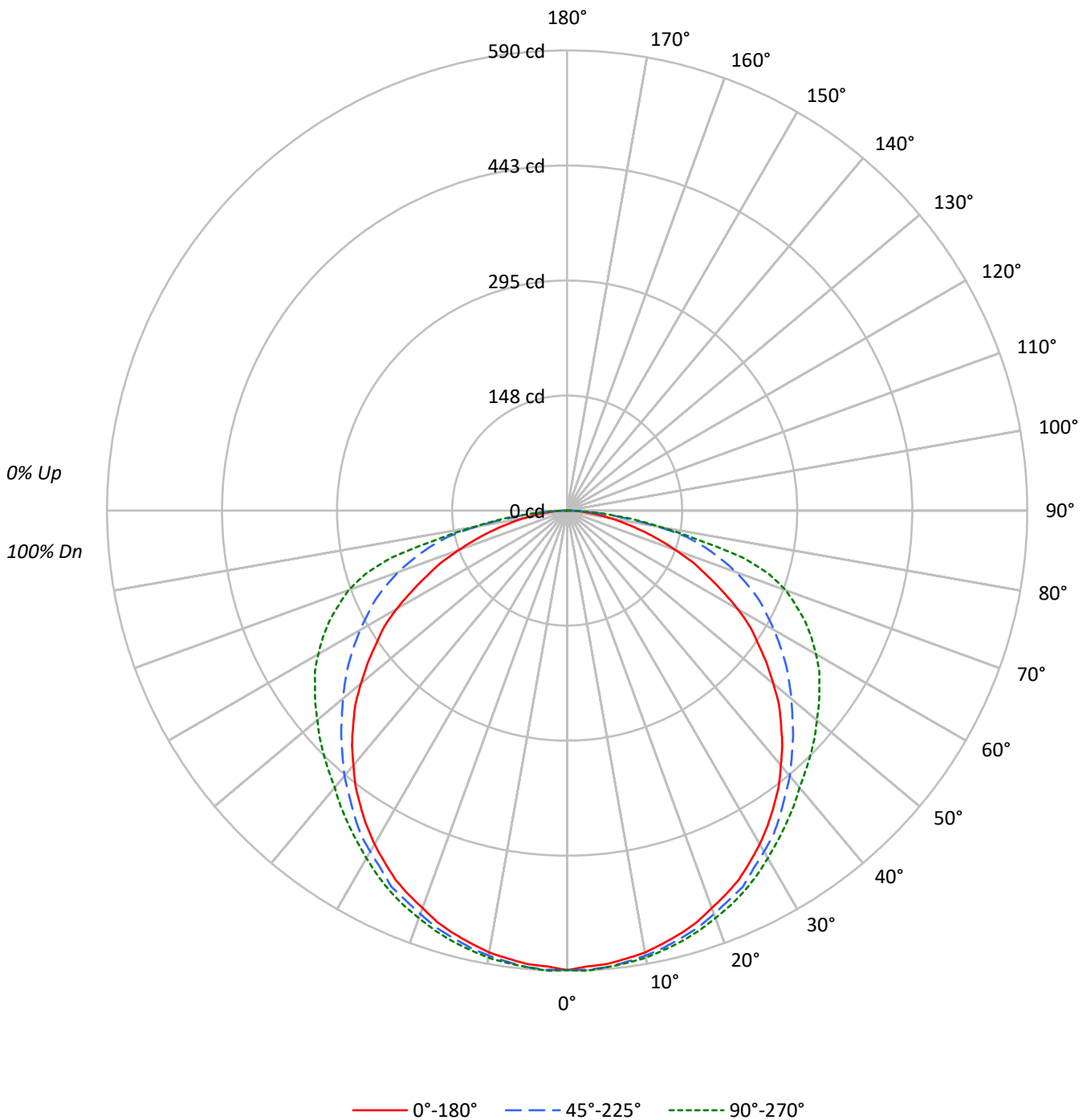
Input Watts (W): 21.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1585	1585	1585
5°	1576	1588	1588
10°	1572	1583	1591
15°	1564	1580	1591
20°	1553	1576	1592
25°	1548	1581	1598
30°	1535	1569	1599
35°	1518	1564	1609
40°	1498	1560	1629
45°	1475	1559	1680
50°	1444	1571	1750
55°	1405	1605	1851
60°	1359	1648	1983
65°	1265	1731	2143
70°	1161	1813	2345
75°	1019	1908	2425
80°	877	1818	1903
85°	766	1321	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.0
10°-20°	160.0	8.5
20°-30°	244.1	13.0
30°-40°	298.1	15.9
40°-50°	318.7	17.0
50°-60°	307.6	16.4
60°-70°	264.8	14.1
70°-80°	179.2	9.6
80°-90°	47.3	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°	459.8	24.5
0°-40°	757.9	40.4
0°-60°	1384.2	73.8
0°-90°	1875.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	584	585	588	588	588	55
15°	562	563	567	570	571	158
25°	522	524	532	535	538	240
35°	462	466	476	486	490	289
45°	388	395	410	430	442	299
55°	299	309	342	377	395	268
65°	199	218	272	315	337	198
75°	98	130	184	221	233	105
85°	25	34	43	44	47	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.1	589.1	589.1	589.1	589.1
2.5°	585.0	586.3	589.1	589.1	590.5
5°	583.6	585.0	587.7	587.7	587.7
7.5°	579.4	580.8	583.6	585.0	585.0
10°	575.3	576.7	579.4	580.8	582.2
12.5°	568.4	569.8	573.9	576.7	576.7
15°	561.5	562.9	567.0	569.8	571.2
17.5°	553.2	556.0	560.1	562.9	564.3
20°	542.2	544.9	550.5	554.6	556.0
22.5°	532.5	535.3	540.8	544.9	547.7
25°	521.5	524.3	532.5	535.3	538.1
27.5°	507.7	510.5	517.4	522.9	527.0
30°	493.9	496.7	504.9	511.8	514.6
32.5°	478.7	482.9	492.5	498.0	502.2
35°	462.2	466.3	476.0	485.6	489.8
37.5°	445.6	449.8	459.4	471.8	477.3
40°	426.3	431.8	444.2	460.8	463.6
42.5°	408.4	415.3	426.3	445.6	452.5
45°	387.7	394.6	409.7	430.4	441.5
47.5°	368.4	375.3	391.8	416.6	430.4
50°	344.9	354.6	375.3	404.2	418.0
52.5°	322.8	331.1	358.7	390.4	407.0
55°	299.4	309.0	342.1	376.6	394.6
57.5°	278.7	287.0	324.2	362.8	383.5
60°	252.5	263.5	306.3	347.7	368.4
62.5°	224.9	241.4	288.3	331.1	353.2
65°	198.7	218.0	271.8	314.6	336.6
67.5°	175.2	195.9	251.1	296.6	317.3
70°	147.6	173.8	230.4	274.5	298.0
72.5°	122.8	151.8	206.9	251.1	271.8
75°	98.0	129.7	183.5	220.7	233.2
77.5°	75.9	106.2	157.3	168.3	169.7
80°	56.6	84.2	117.3	118.6	122.8
82.5°	38.6	59.3	75.9	82.8	84.2
85°	24.8	34.5	42.8	44.1	46.9
87.5°	11.0	12.4	15.2	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)