

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: P390239

Luminaire Tested: **22CZ2-29VHE-RDP-UNV-L930-CD1-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: P390239
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-L930-CD1-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: 1728.0 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

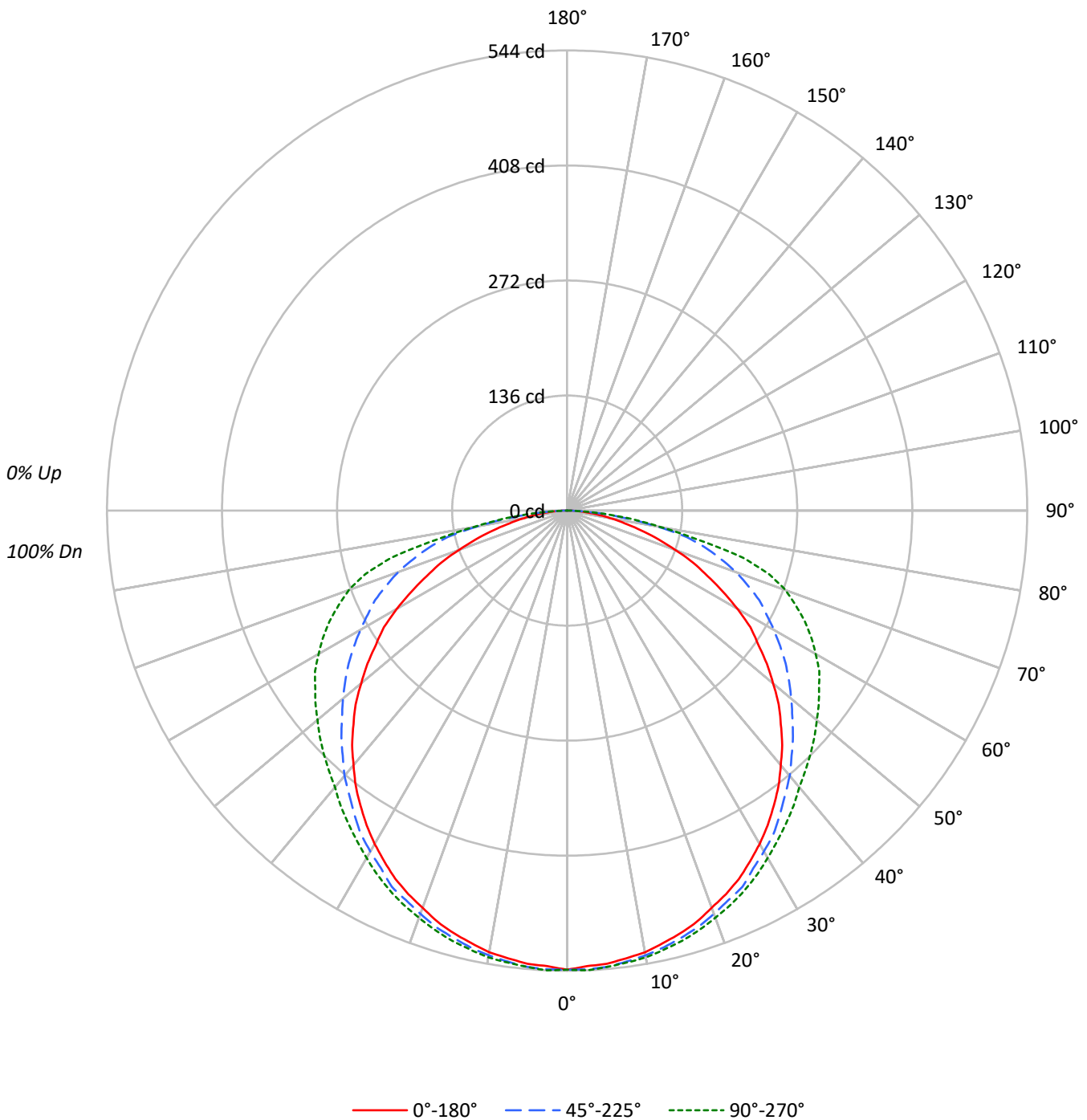
Input Watts (W): 21.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1461	1461	1461
5°	1452	1463	1463
10°	1448	1459	1466
15°	1441	1456	1466
20°	1431	1452	1467
25°	1427	1457	1472
30°	1414	1446	1473
35°	1399	1441	1483
40°	1380	1438	1500
45°	1359	1437	1548
50°	1330	1448	1613
55°	1294	1479	1706
60°	1252	1519	1827
65°	1166	1594	1975
70°	1070	1670	2161
75°	939	1758	2233
80°	807	1675	1753
85°	707	1216	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.0
10°-20°	147.4	8.5
20°-30°	224.9	13.0
30°-40°	274.6	15.9
40°-50°	293.6	17.0
50°-60°	283.4	16.4
60°-70°	244.0	14.1
70°-80°	165.1	9.6
80°-90°	43.6	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°	423.7	24.5
0°-40°	698.3	40.4
0°-60°	1275.4	73.8
0°-90°	1728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	538	539	542	542	542	51
15°	517	519	522	525	526	146
25°	480	483	491	493	496	221
35°	426	430	439	448	451	266
45°	357	364	378	397	407	276
55°	276	285	315	347	364	247
65°	183	201	250	290	310	182
75°	90	120	169	203	215	97
85°	23	32	39	41	43	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	542.8	542.8	542.8	542.8	542.8
2.5°	539.0	540.3	542.8	542.8	544.1
5°	537.7	539.0	541.5	541.5	541.5
7.5°	533.9	535.2	537.7	539.0	539.0
10°	530.1	531.4	533.9	535.2	536.4
12.5°	523.7	525.0	528.8	531.4	531.4
15°	517.4	518.6	522.5	525.0	526.3
17.5°	509.7	512.3	516.1	518.6	519.9
20°	499.6	502.1	507.2	511.0	512.3
22.5°	490.7	493.2	498.3	502.1	504.7
25°	480.5	483.0	490.7	493.2	495.8
27.5°	467.8	470.3	476.7	481.8	485.6
30°	455.1	457.6	465.3	471.6	474.2
32.5°	441.1	444.9	453.8	458.9	462.7
35°	425.8	429.7	438.6	447.5	451.3
37.5°	410.6	414.4	423.3	434.7	439.8
40°	392.8	397.9	409.3	424.6	427.1
42.5°	376.3	382.6	392.8	410.6	416.9
45°	357.2	363.6	377.5	396.6	406.8
47.5°	339.4	345.8	361.0	383.9	396.6
50°	317.8	326.7	345.8	372.5	385.2
52.5°	297.5	305.1	330.5	359.7	375.0
55°	275.8	284.7	315.3	347.0	363.6
57.5°	256.8	264.4	298.7	334.3	353.4
60°	232.6	242.8	282.2	320.3	339.4
62.5°	207.2	222.5	265.7	305.1	325.4
65°	183.1	200.8	250.4	289.8	310.2
67.5°	161.4	180.5	231.4	273.3	292.4
70°	136.0	160.2	212.3	253.0	274.6
72.5°	113.1	139.8	190.7	231.4	250.4
75°	90.3	119.5	169.1	203.4	214.8
77.5°	69.9	97.9	144.9	155.1	156.4
80°	52.1	77.5	108.1	109.3	113.1
82.5°	35.6	54.7	69.9	76.3	77.5
85°	22.9	31.8	39.4	40.7	43.2
87.5°	10.2	11.4	14.0	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)