

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: P390242

Luminaire Tested: **22CZ2-29VHE-RDP-UNV-L935-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: P390242
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-L935-CD1-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: 1770.7 lumens
Efficiency: N/A
Efficacy: 81.6 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

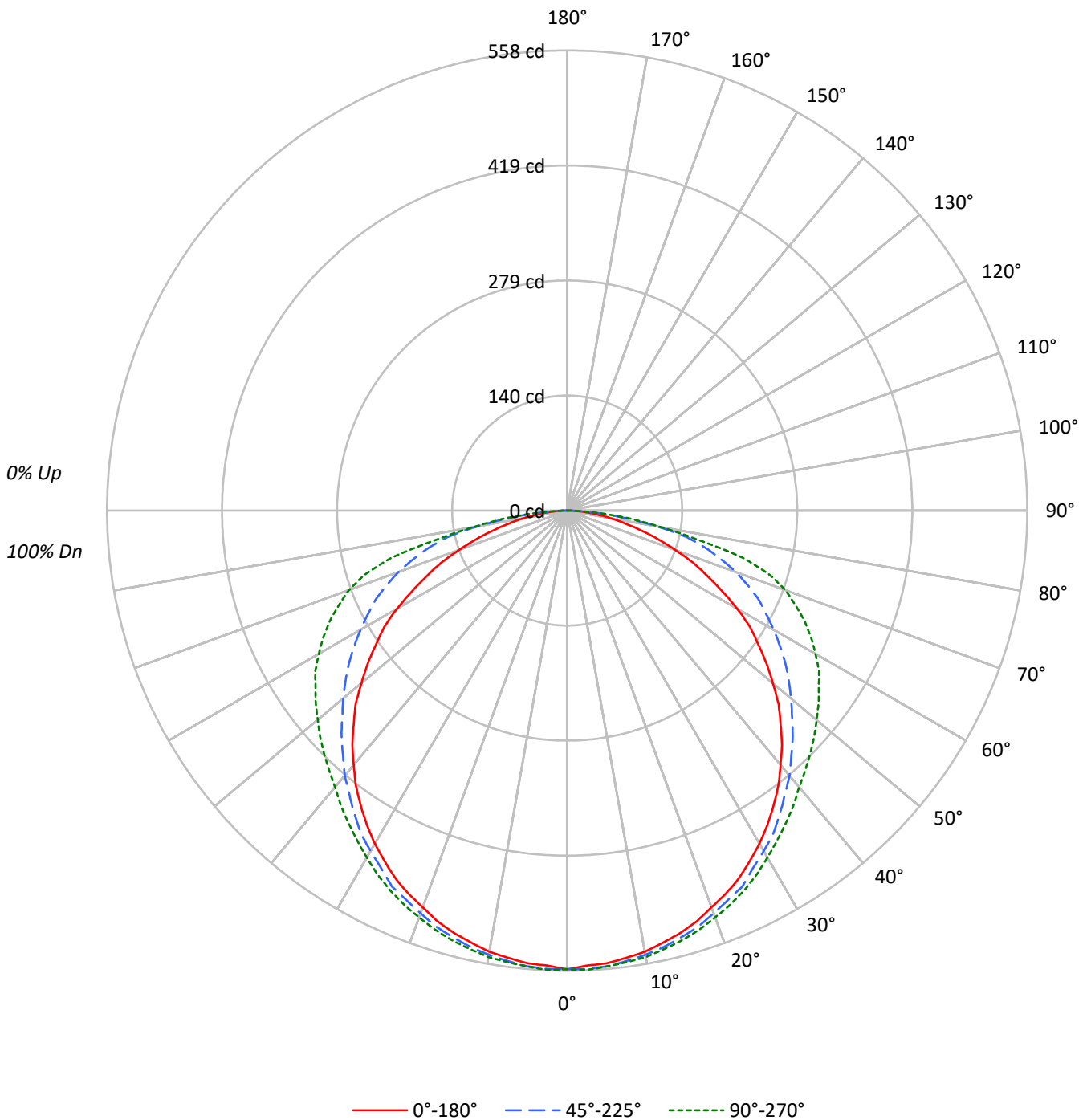
Input Watts (W): 21.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1497	1497	1497
5°	1488	1499	1499
10°	1484	1495	1502
15°	1477	1492	1502
20°	1466	1488	1503
25°	1462	1493	1508
30°	1449	1481	1510
35°	1434	1476	1519
40°	1414	1473	1538
45°	1393	1472	1586
50°	1363	1483	1652
55°	1326	1515	1748
60°	1283	1556	1872
65°	1195	1634	2024
70°	1097	1711	2214
75°	962	1801	2288
80°	828	1715	1796
85°	722	1247	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	3.0
10°-20°	151.1	8.5
20°-30°	230.5	13.0
30°-40°	281.4	15.9
40°-50°	300.9	17.0
50°-60°	290.4	16.4
60°-70°	250.0	14.1
70°-80°	169.1	9.6
80°-90°	44.6	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°	434.2	24.5
0°-40°	715.6	40.4
0°-60°	1306.9	73.8
0°-90°	1770.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	551	552	555	555	555	52
15°	530	532	535	538	539	150
25°	492	495	503	505	508	227
35°	436	440	449	458	462	273
45°	366	372	387	406	417	283
55°	283	292	323	356	372	253
65°	188	206	257	297	318	187
75°	92	122	173	208	220	99
85°	23	33	40	42	44	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.2	556.2	556.2	556.2	556.2
2.5°	552.3	553.6	556.2	556.2	557.5
5°	551.0	552.3	554.9	554.9	554.9
7.5°	547.1	548.4	551.0	552.3	552.3
10°	543.2	544.5	547.1	548.4	549.7
12.5°	536.7	538.0	541.9	544.5	544.5
15°	530.2	531.5	535.4	538.0	539.3
17.5°	522.3	524.9	528.9	531.5	532.8
20°	511.9	514.5	519.7	523.6	524.9
22.5°	502.8	505.4	510.6	514.5	517.1
25°	492.4	495.0	502.8	505.4	508.0
27.5°	479.4	482.0	488.5	493.7	497.6
30°	466.3	468.9	476.7	483.3	485.9
32.5°	452.0	455.9	465.0	470.2	474.1
35°	436.4	440.3	449.4	458.5	462.4
37.5°	420.7	424.6	433.8	445.5	450.7
40°	402.5	407.7	419.4	435.1	437.7
42.5°	385.6	392.1	402.5	420.7	427.3
45°	366.0	372.5	386.9	406.4	416.8
47.5°	347.8	354.3	369.9	393.4	406.4
50°	325.6	334.8	354.3	381.7	394.7
52.5°	304.8	312.6	338.7	368.6	384.3
55°	282.7	291.8	323.0	355.6	372.5
57.5°	263.1	270.9	306.1	342.6	362.1
60°	238.4	248.8	289.2	328.3	347.8
62.5°	212.3	228.0	272.2	312.6	333.5
65°	187.6	205.8	256.6	297.0	317.8
67.5°	165.4	185.0	237.1	280.1	299.6
70°	139.4	164.1	217.5	259.2	281.4
72.5°	115.9	143.3	195.4	237.1	256.6
75°	92.5	122.4	173.2	208.4	220.1
77.5°	71.6	100.3	148.5	158.9	160.2
80°	53.4	79.5	110.7	112.0	115.9
82.5°	36.5	56.0	71.6	78.2	79.5
85°	23.4	32.6	40.4	41.7	44.3
87.5°	10.4	11.7	14.3	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)