

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: P259324

Luminaire Tested: **22CZ-LD5-20-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1848.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

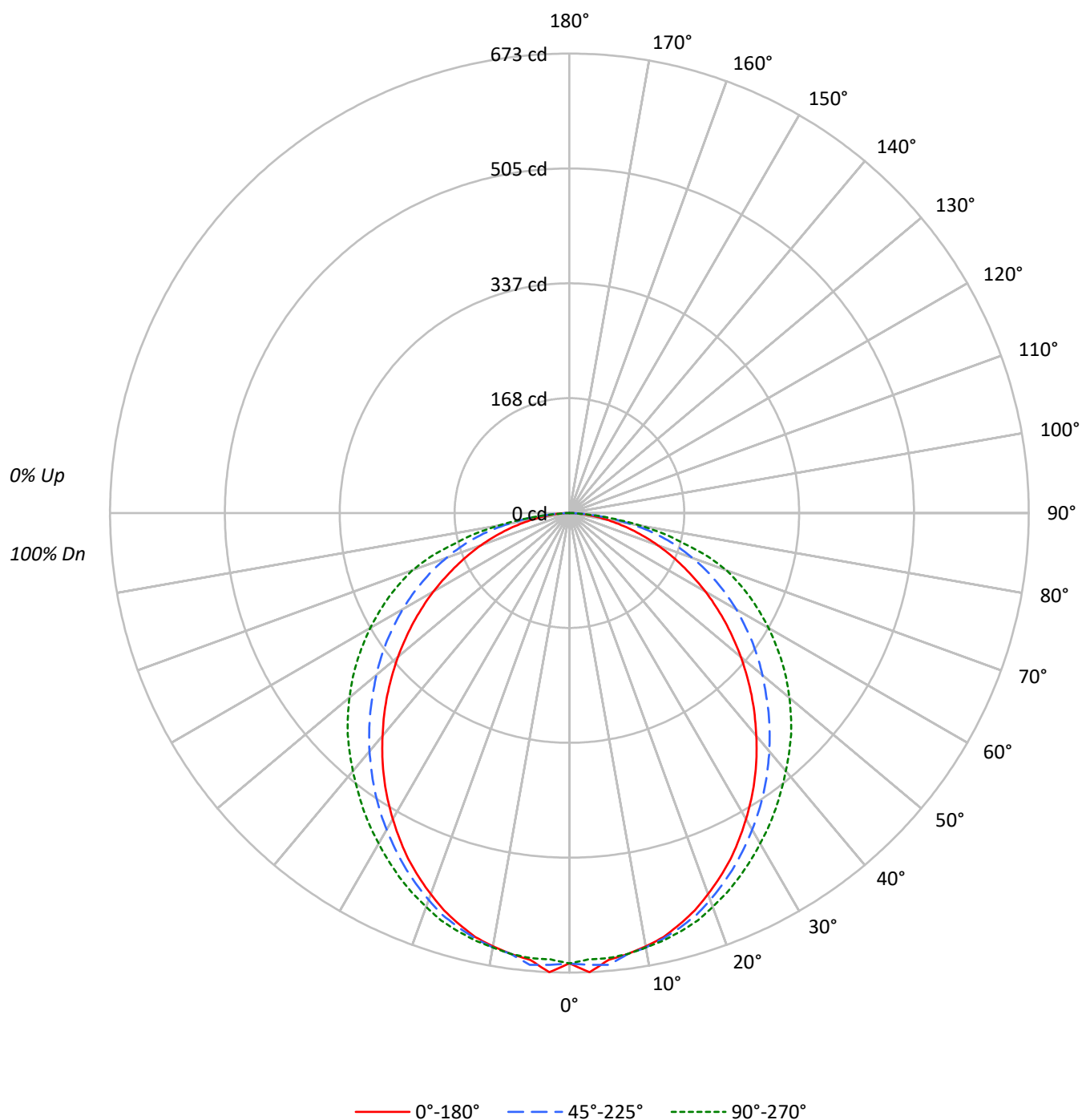
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1775	1775	1775
5°	1774	1794	1767
10°	1761	1765	1765
15°	1738	1750	1765
20°	1701	1727	1758
25°	1660	1697	1748
30°	1608	1664	1737
35°	1556	1633	1733
40°	1496	1600	1733
45°	1436	1570	1748
50°	1373	1546	1761
55°	1307	1530	1783
60°	1238	1519	1814
65°	1161	1510	1860
70°	1082	1506	1923
75°	981	1504	1822
80°	849	1393	1615
85°	722	1053	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	3.4
10°-20°	177.2	9.6
20°-30°	263.6	14.3
30°-40°	311.8	16.9
40°-50°	320.5	17.3
50°-60°	292.8	15.8
60°-70°	234.2	12.7
70°-80°	147.0	8.0
80°-90°	38.3	2.1
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°	503.4	27.2
0°-40°	815.2	44.1
0°-60°	1428.5	77.3
0°-90°	1848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	657	657	664	660	654	62
15°	624	625	628	632	634	176
25°	559	563	572	581	589	257
35°	474	480	497	516	528	296
45°	377	387	412	443	459	291
55°	279	292	326	362	380	249
65°	182	199	237	273	292	181
75°	94	112	145	166	175	100
85°	23	30	34	33	33	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.6	659.6	659.6	659.6	659.6
2.5°	673.1	670.4	662.3	656.9	654.2
5°	656.9	656.9	664.1	659.6	654.2
7.5°	651.5	651.5	651.5	665.0	651.5
10°	644.3	645.2	646.1	651.5	646.1
12.5°	636.2	636.2	638.0	639.8	640.7
15°	623.7	624.6	628.2	631.8	633.6
17.5°	610.2	612.9	617.4	621.9	625.5
20°	594.0	597.6	603.0	610.2	613.8
22.5°	576.9	580.5	587.7	595.8	602.1
25°	559.0	562.6	571.5	581.4	588.6
27.5°	538.3	542.8	553.6	567.1	574.2
30°	517.6	523.0	535.6	550.9	559.0
32.5°	496.1	502.3	516.7	533.8	543.7
35°	473.6	479.9	497.0	515.8	527.5
37.5°	450.2	457.4	476.3	497.9	510.4
40°	426.0	434.1	455.6	479.0	493.4
42.5°	401.7	410.7	434.1	461.9	476.3
45°	377.4	387.3	412.5	443.0	459.2
47.5°	352.3	364.0	390.0	424.2	440.3
50°	328.0	339.7	369.3	404.4	420.6
52.5°	302.8	316.3	347.8	383.7	400.8
55°	278.6	292.1	326.2	362.2	380.1
57.5°	254.3	267.8	303.7	340.6	358.6
60°	230.1	244.4	282.2	318.1	337.0
62.5°	205.8	221.1	259.7	296.6	314.5
65°	182.4	198.6	237.2	273.2	292.1
67.5°	160.0	177.0	214.8	249.8	268.7
70°	137.5	154.6	191.4	225.6	244.4
72.5°	115.9	133.0	168.9	199.5	213.9
75°	94.4	112.3	144.7	166.3	175.2
77.5°	73.7	91.7	119.5	133.9	143.8
80°	54.8	70.1	89.9	100.6	104.2
82.5°	37.7	50.3	62.9	65.6	67.4
85°	23.4	29.7	34.1	33.3	33.3
87.5°	10.8	11.7	9.9	7.2	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)