

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: P277276

Luminaire Tested: **22CZ2-24HE-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1851.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

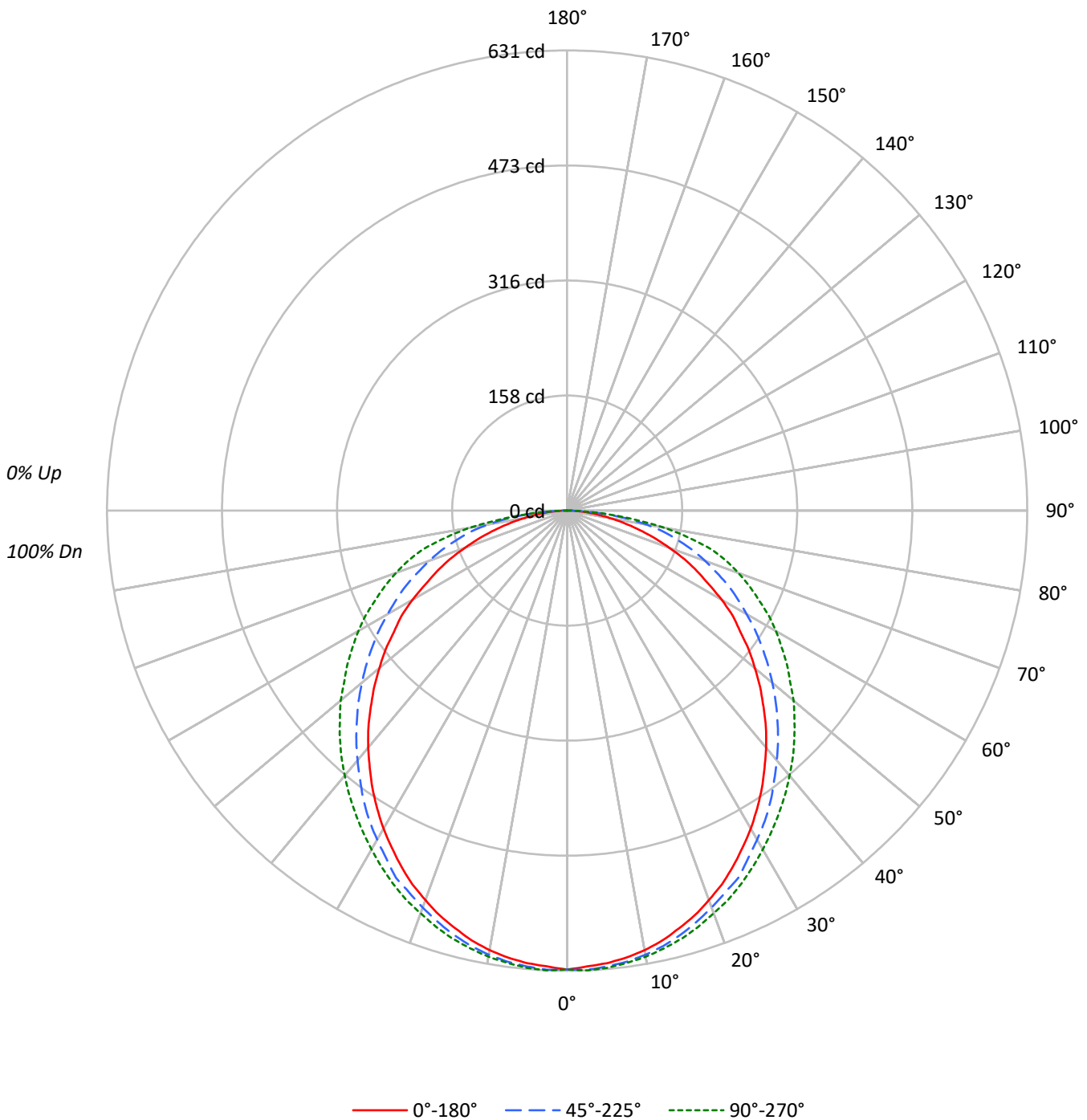
Input Watts (W): 17.391
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1694	1694	1694
5°	1683	1695	1700
10°	1673	1690	1697
15°	1652	1677	1692
20°	1627	1659	1682
25°	1598	1650	1677
30°	1565	1619	1667
35°	1529	1598	1664
40°	1491	1571	1667
45°	1449	1553	1678
50°	1407	1537	1697
55°	1359	1530	1727
60°	1319	1530	1779
65°	1252	1554	1844
70°	1168	1584	1964
75°	1070	1639	2121
80°	931	1708	2089
85°	815	1519	1658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.2
10°-20°	169.5	9.2
20°-30°	254.5	13.7
30°-40°	304.1	16.4
40°-50°	316.2	17.1
50°-60°	293.1	15.8
60°-70°	240.4	13.0
70°-80°	162.5	8.8
80°-90°	51.1	2.8
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°	483.6	26.1
0°-40°	787.7	42.6
0°-60°	1397.0	75.5
0°-90°	1851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	623	624	628	628	629	59
15°	593	596	602	606	608	167
25°	538	543	556	562	565	248
35°	465	472	486	501	506	291
45°	381	388	408	432	441	294
55°	290	299	326	355	368	260
65°	197	208	244	276	290	194
75°	103	120	158	189	204	109
85°	26	36	49	55	54	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.4	629.4	629.4	629.4	629.4
2.5°	625.7	627.6	630.3	631.2	631.2
5°	623.0	623.9	627.6	628.5	629.4
7.5°	618.4	620.3	623.9	624.8	625.7
10°	612.1	613.9	618.4	620.3	621.2
12.5°	603.9	605.7	611.2	613.9	614.8
15°	592.9	595.7	602.0	605.7	607.5
17.5°	582.0	584.7	591.1	596.6	598.4
20°	568.3	574.7	579.3	586.6	587.5
22.5°	554.7	558.3	566.5	573.8	577.5
25°	538.3	542.8	555.6	562.0	564.7
27.5°	521.0	527.4	537.4	547.4	551.0
30°	503.7	508.2	521.0	532.8	536.5
32.5°	484.6	490.9	504.6	516.4	521.9
35°	465.4	471.8	486.4	500.9	506.4
37.5°	444.5	451.8	466.3	483.6	490.9
40°	424.4	429.9	447.2	468.2	474.5
42.5°	403.5	409.9	428.1	450.9	458.1
45°	380.7	388.0	408.0	431.7	440.8
47.5°	358.9	366.1	388.0	411.7	422.6
50°	336.1	345.2	367.1	394.4	405.3
52.5°	314.2	322.4	347.0	375.3	385.3
55°	289.6	298.7	326.1	355.2	368.0
57.5°	269.6	276.0	306.0	336.1	348.8
60°	245.0	253.2	284.2	316.1	330.6
62.5°	218.6	232.3	264.1	296.9	311.5
65°	196.7	207.7	244.1	276.0	289.6
67.5°	174.0	185.8	221.3	255.0	270.5
70°	148.5	163.9	201.3	235.0	249.6
72.5°	125.7	142.1	180.3	213.1	228.6
75°	102.9	120.2	157.6	189.4	204.0
77.5°	81.1	100.2	136.6	161.2	170.3
80°	60.1	78.3	110.2	127.5	134.8
82.5°	41.9	57.4	81.1	90.2	92.0
85°	26.4	36.4	49.2	54.6	53.7
87.5°	11.8	14.6	18.2	20.0	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)