

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: P277212

Luminaire Tested: **22CZ2-20HE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277212
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: 22CZ2-20HE-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1847.1 lumens
Efficiency: N/A
Efficacy: 118.9 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

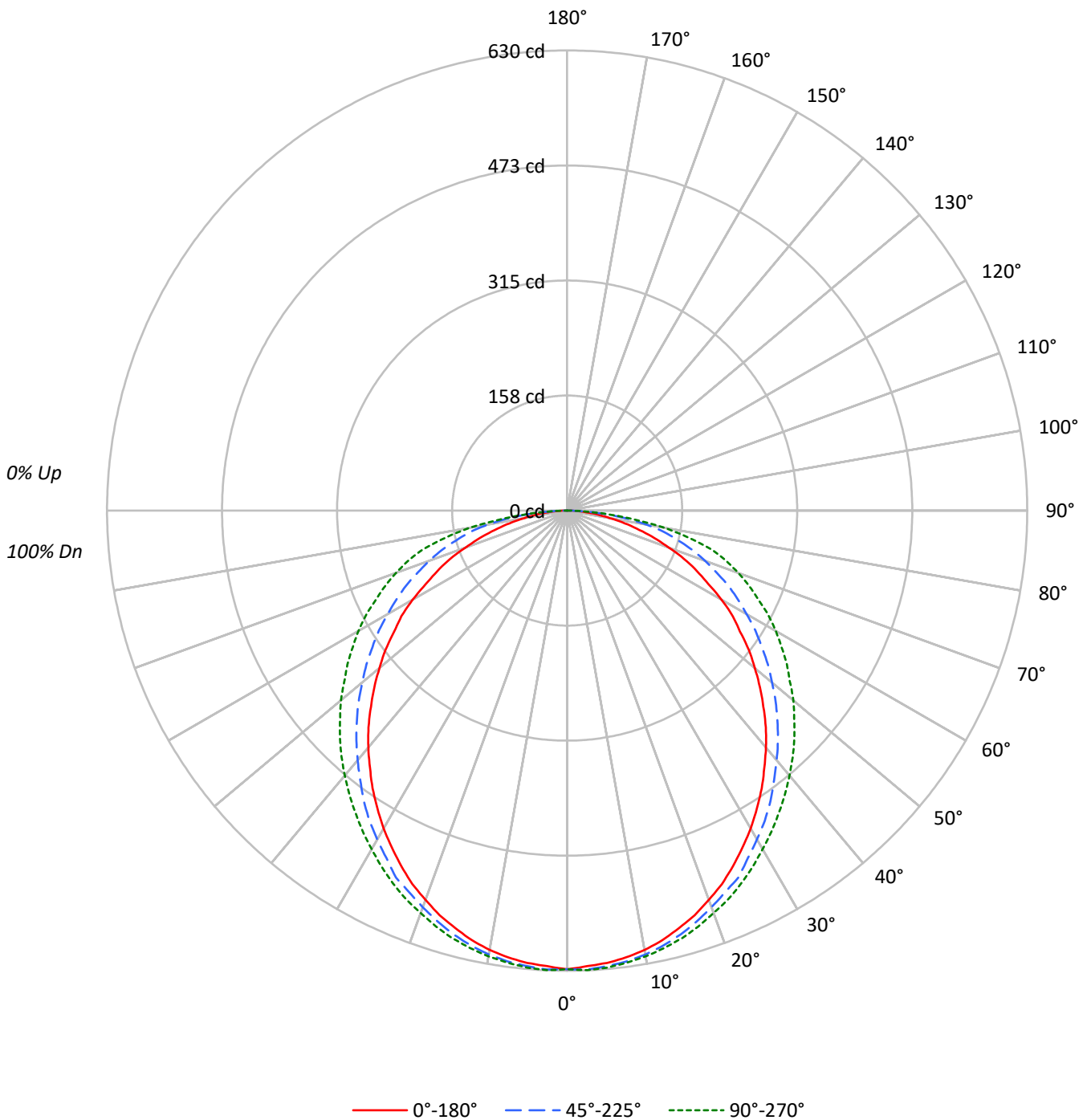
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	43	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°	1690	1690	1690
5°	1679	1692	1696
10°	1669	1686	1694
15°	1648	1673	1689
20°	1624	1655	1679
25°	1595	1646	1673
30°	1562	1615	1663
35°	1526	1594	1660
40°	1488	1567	1663
45°	1446	1550	1674
50°	1404	1533	1693
55°	1356	1527	1723
60°	1316	1526	1776
65°	1250	1551	1840
70°	1165	1581	1959
75°	1068	1634	2117
80°	930	1705	2084
85°	815	1516	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.2
10°-20°	169.2	9.2
20°-30°	254.0	13.7
30°-40°	303.5	16.4
40°-50°	315.6	17.1
50°-60°	292.5	15.8
60°-70°	239.9	13.0
70°-80°	162.2	8.8
80°-90°	51.0	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°	482.5	26.1
0°-40°	786.0	42.6
0°-60°	1394.0	75.5
0°-90°	1847.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1847.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	622	623	626	627	628	59
15°	592	594	601	604	606	167
25°	537	542	554	561	564	247
35°	464	471	485	500	505	290
45°	380	387	407	431	440	293
55°	289	298	325	354	367	260
65°	196	207	244	275	289	194
75°	103	120	157	189	204	109
85°	26	36	49	54	54	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	628.0	628.0	628.0	628.0	628.0
2.5°	624.4	626.2	628.9	629.8	629.8
5°	621.7	622.6	626.2	627.1	628.0
7.5°	617.1	618.9	622.6	623.5	624.4
10°	610.7	612.6	617.1	618.9	619.8
12.5°	602.6	604.4	609.8	612.6	613.5
15°	591.7	594.4	600.7	604.4	606.2
17.5°	580.8	583.5	589.8	595.3	597.1
20°	567.1	573.5	578.0	585.3	586.2
22.5°	553.5	557.1	565.3	572.6	576.2
25°	537.1	541.7	554.4	560.8	563.5
27.5°	519.9	526.2	536.2	546.2	549.9
30°	502.6	507.1	519.9	531.7	535.3
32.5°	483.5	489.9	503.5	515.3	520.8
35°	464.4	470.8	485.3	499.9	505.3
37.5°	443.5	450.8	465.3	482.6	489.9
40°	423.5	429.0	446.2	467.1	473.5
42.5°	402.6	409.0	427.2	449.9	457.2
45°	379.9	387.2	407.2	430.8	439.9
47.5°	358.1	365.4	387.2	410.8	421.7
50°	335.4	344.5	366.3	393.5	404.4
52.5°	313.6	321.7	346.3	374.4	384.4
55°	289.0	298.1	325.4	354.5	367.2
57.5°	269.0	275.4	305.4	335.4	348.1
60°	244.5	252.7	283.6	315.4	329.9
62.5°	218.1	231.8	263.6	296.3	310.8
65°	196.3	207.2	243.6	275.4	289.0
67.5°	173.6	185.4	220.9	254.5	269.9
70°	148.1	163.6	200.9	234.5	249.0
72.5°	125.4	141.8	180.0	212.7	228.1
75°	102.7	120.0	157.2	189.0	203.6
77.5°	80.9	100.0	136.3	160.9	170.0
80°	60.0	78.2	110.0	127.2	134.5
82.5°	41.8	57.3	80.9	90.0	91.8
85°	26.4	36.4	49.1	54.5	53.6
87.5°	11.8	14.5	18.2	20.0	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)