

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: P277273

Luminaire Tested: **22CZ2-20HE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277273
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-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1898.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

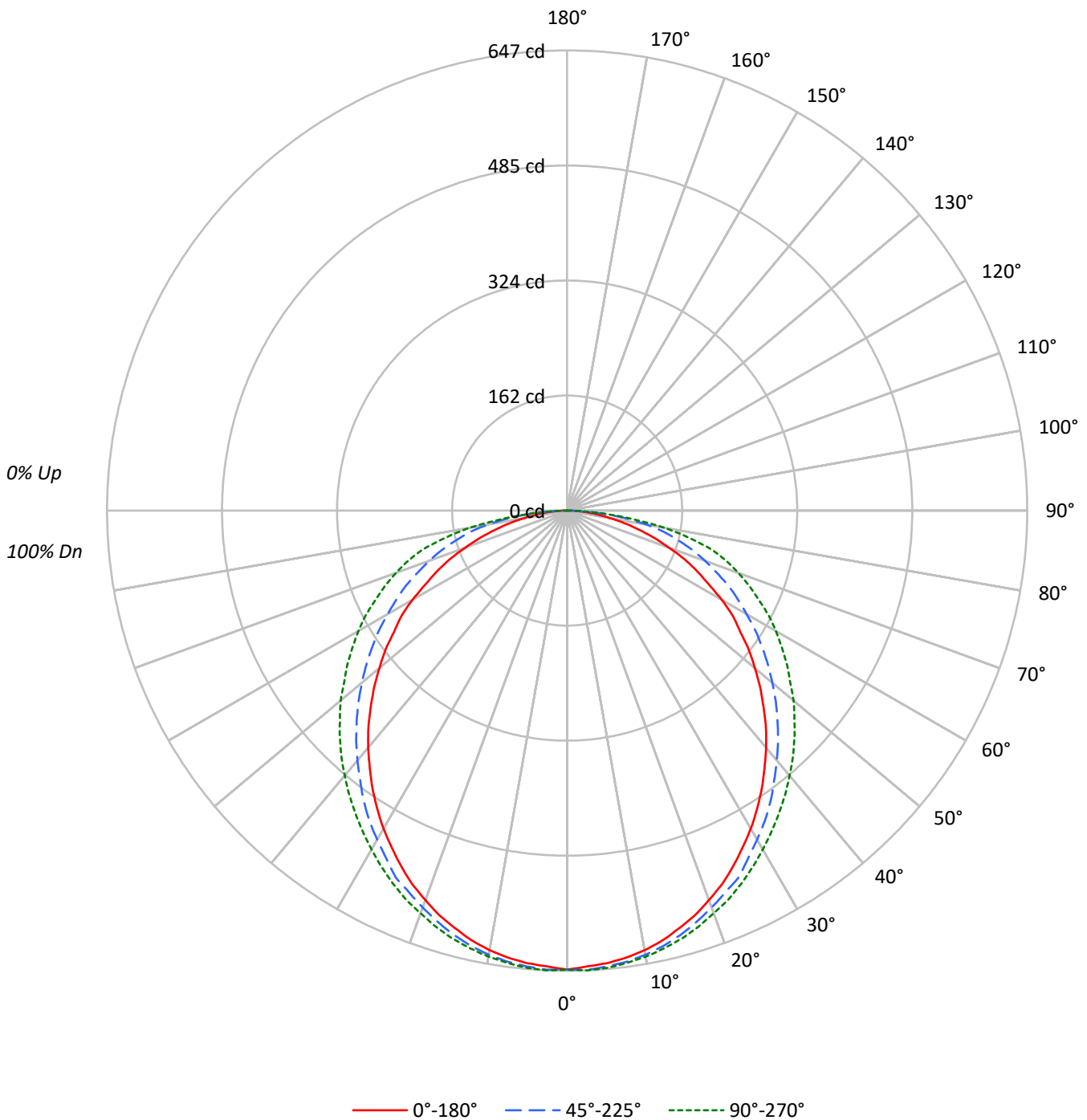
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1737	1737	1737
5°	1726	1738	1743
10°	1715	1733	1740
15°	1694	1720	1735
20°	1669	1701	1725
25°	1639	1692	1719
30°	1605	1660	1709
35°	1568	1638	1706
40°	1529	1611	1709
45°	1486	1592	1720
50°	1443	1576	1740
55°	1393	1569	1770
60°	1352	1568	1824
65°	1284	1594	1891
70°	1197	1624	2013
75°	1097	1680	2175
80°	955	1751	2142
85°	837	1556	1701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.2
10°-20°	173.8	9.2
20°-30°	261.0	13.7
30°-40°	311.8	16.4
40°-50°	324.3	17.1
50°-60°	300.5	15.8
60°-70°	246.5	13.0
70°-80°	166.6	8.8
80°-90°	52.4	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°	495.8	26.1
0°-40°	807.7	42.6
0°-60°	1432.5	75.5
0°-90°	1898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	639	640	644	644	645	61
15°	608	611	617	621	623	172
25°	552	557	570	576	579	254
35°	477	484	499	514	519	298
45°	390	398	418	443	452	301
55°	297	306	334	364	377	267
65°	202	213	250	283	297	199
75°	106	123	162	194	209	112
85°	27	37	50	56	55	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	645.4	645.4	645.4	645.4	645.4
2.5°	641.6	643.5	646.3	647.2	647.2
5°	638.8	639.8	643.5	644.4	645.4
7.5°	634.1	636.0	639.8	640.7	641.6
10°	627.6	629.5	634.1	636.0	636.9
12.5°	619.2	621.1	626.7	629.5	630.4
15°	608.0	610.8	617.3	621.1	622.9
17.5°	596.8	599.6	606.1	611.7	613.6
20°	582.8	589.3	594.0	601.5	602.4
22.5°	568.8	572.5	580.9	588.4	592.1
25°	552.0	556.6	569.7	576.2	579.0
27.5°	534.2	540.8	551.0	561.3	565.0
30°	516.5	521.1	534.2	546.4	550.1
32.5°	496.9	503.4	517.4	529.5	535.1
35°	477.2	483.8	498.7	513.7	519.3
37.5°	455.8	463.2	478.2	495.9	503.4
40°	435.2	440.8	458.6	480.0	486.6
42.5°	413.7	420.3	439.0	462.3	469.8
45°	390.4	397.9	418.4	442.7	452.0
47.5°	368.0	375.4	397.9	422.1	433.3
50°	344.6	354.0	376.4	404.4	415.6
52.5°	322.2	330.6	355.8	384.8	395.1
55°	297.0	306.3	334.4	364.2	377.3
57.5°	276.4	283.0	313.8	344.6	357.7
60°	251.2	259.6	291.4	324.1	339.0
62.5°	224.1	238.2	270.8	304.5	319.4
65°	201.7	212.9	250.3	283.0	297.0
67.5°	178.4	190.5	226.9	261.5	277.4
70°	152.2	168.1	206.4	241.0	255.9
72.5°	128.9	145.7	184.9	218.5	234.4
75°	105.5	123.3	161.6	194.3	209.2
77.5°	83.1	102.7	140.1	165.3	174.6
80°	61.6	80.3	113.0	130.8	138.2
82.5°	43.0	58.8	83.1	92.5	94.3
85°	27.1	37.4	50.4	56.0	55.1
87.5°	12.1	14.9	18.7	20.5	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)