

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: P277270

Luminaire Tested: **22CZ2-20HE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277270
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-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1824.0 lumens
Efficiency: N/A
Efficacy: 115.4 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

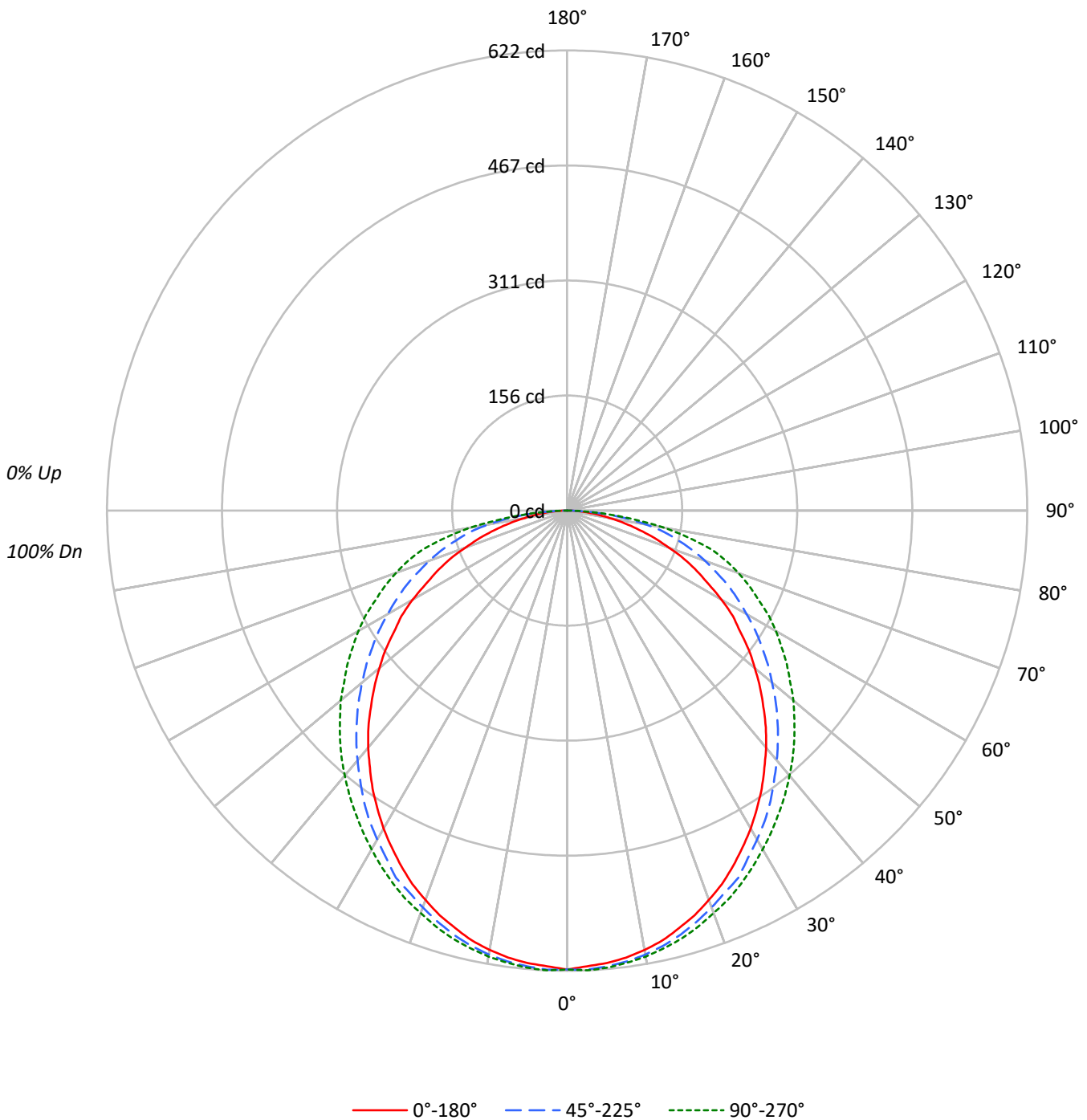
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277270

CATALOG NUMBER: 22CZ2-20HE-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P277270

CATALOG NUMBER: 22CZ2-20HE-UNV-L92765-W2A1-U-4500K

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°	1669	1669	1669
5°	1658	1670	1675
10°	1648	1665	1673
15°	1628	1653	1668
20°	1604	1635	1658
25°	1575	1626	1652
30°	1542	1595	1643
35°	1507	1575	1639
40°	1469	1548	1643
45°	1428	1530	1653
50°	1387	1514	1672
55°	1339	1507	1701
60°	1299	1507	1753
65°	1235	1531	1817
70°	1151	1561	1935
75°	1054	1615	2090
80°	917	1683	2058
85°	803	1497	1636



TEST NUMBER: P277270

CATALOG NUMBER: 22CZ2-20HE-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	3.2
10°-20°	167.1	9.2
20°-30°	250.8	13.7
30°-40°	299.7	16.4
40°-50°	311.6	17.1
50°-60°	288.8	15.8
60°-70°	236.9	13.0
70°-80°	160.2	8.8
80°-90°	50.3	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°	476.5	26.1
0°-40°	776.2	42.6
0°-60°	1376.6	75.5
0°-90°	1824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	614	615	618	619	620	58
15°	584	587	593	597	599	165
25°	530	535	548	554	556	244
35°	459	465	479	494	499	287
45°	375	382	402	425	434	290
55°	285	294	321	350	363	256
65°	194	205	240	272	285	192
75°	101	118	155	187	201	108
85°	26	36	48	54	53	30
90°	0	0	0	0	0	



TEST NUMBER: P277270

CATALOG NUMBER: 22CZ2-20HE-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.2	620.2	620.2	620.2	620.2
2.5°	616.6	618.4	621.1	622.0	622.0
5°	613.9	614.8	618.4	619.3	620.2
7.5°	609.4	611.2	614.8	615.7	616.6
10°	603.1	604.9	609.4	611.2	612.1
12.5°	595.1	596.9	602.2	604.9	605.8
15°	584.3	587.0	593.3	596.9	598.7
17.5°	573.5	576.2	582.5	587.9	589.7
20°	560.1	566.3	570.8	578.0	578.9
22.5°	546.6	550.2	558.3	565.4	569.0
25°	530.4	534.9	547.5	553.8	556.5
27.5°	513.4	519.7	529.5	539.4	543.0
30°	496.3	500.8	513.4	525.1	528.6
32.5°	477.5	483.8	497.2	508.9	514.3
35°	458.6	464.9	479.3	493.6	499.0
37.5°	438.0	445.2	459.5	476.6	483.8
40°	418.2	423.6	440.7	461.3	467.6
42.5°	397.6	403.9	421.8	444.3	451.5
45°	375.2	382.3	402.1	425.4	434.4
47.5°	353.6	360.8	382.3	405.7	416.5
50°	331.2	340.2	361.7	388.6	399.4
52.5°	309.6	317.7	342.0	369.8	379.7
55°	285.4	294.4	321.3	350.0	362.6
57.5°	265.7	272.0	301.6	331.2	343.8
60°	241.4	249.5	280.0	311.4	325.8
62.5°	215.4	228.9	260.3	292.6	307.0
65°	193.9	204.6	240.5	272.0	285.4
67.5°	171.4	183.1	218.1	251.3	266.6
70°	146.3	161.6	198.4	231.6	245.9
72.5°	123.9	140.0	177.7	210.0	225.3
75°	101.4	118.5	155.3	186.7	201.0
77.5°	79.9	98.7	134.6	158.9	167.8
80°	59.2	77.2	108.6	125.7	132.8
82.5°	41.3	56.5	79.9	88.9	90.7
85°	26.0	35.9	48.5	53.9	53.0
87.5°	11.7	14.4	18.0	19.7	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)