

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: P277278

Luminaire Tested: **22CZ2-24HE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277278
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-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2006.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

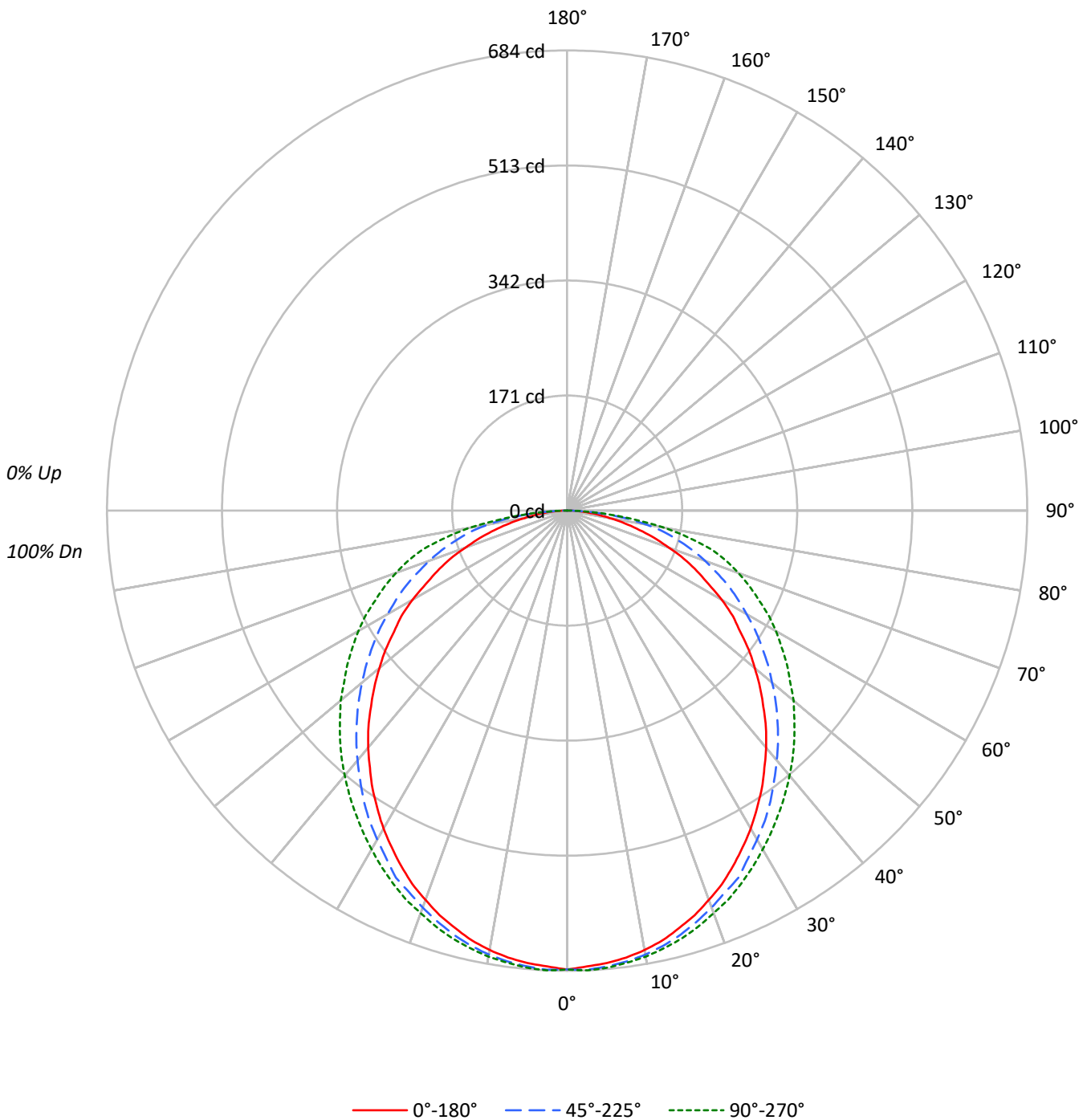
Input Watts (W): 17.763
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277278

CATALOG NUMBER: 22CZ2-24HE-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P277278

CATALOG NUMBER: 22CZ2-24HE-UNV-L92765-W2A1-U-4000K

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°	1836	1836	1836
5°	1824	1837	1843
10°	1812	1831	1840
15°	1790	1818	1834
20°	1764	1798	1823
25°	1732	1788	1817
30°	1696	1754	1807
35°	1657	1732	1803
40°	1616	1703	1807
45°	1570	1683	1818
50°	1525	1665	1839
55°	1473	1658	1871
60°	1429	1658	1928
65°	1358	1684	1999
70°	1266	1716	2128
75°	1159	1776	2299
80°	1009	1850	2264
85°	883	1646	1797



TEST NUMBER: P277278

CATALOG NUMBER: 22CZ2-24HE-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.2
10°-20°	183.7	9.2
20°-30°	275.8	13.7
30°-40°	329.6	16.4
40°-50°	342.7	17.1
50°-60°	317.6	15.8
60°-70°	260.6	13.0
70°-80°	176.1	8.8
80°-90°	55.3	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°	524.1	26.1
0°-40°	853.6	42.6
0°-60°	1514.0	75.5
0°-90°	2006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	675	676	680	681	682	64
15°	643	646	652	656	658	181
25°	583	588	602	609	612	269
35°	504	511	527	543	549	315
45°	413	420	442	468	478	319
55°	314	324	353	385	399	282
65°	213	225	264	299	314	211
75°	112	130	171	205	221	118
85°	29	40	53	59	58	32
90°	0	0	0	0	0	



TEST NUMBER: P277278

CATALOG NUMBER: 22CZ2-24HE-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.1	682.1	682.1	682.1	682.1
2.5°	678.1	680.1	683.1	684.1	684.1
5°	675.2	676.2	680.1	681.1	682.1
7.5°	670.2	672.2	676.2	677.1	678.1
10°	663.3	665.3	670.2	672.2	673.2
12.5°	654.4	656.4	662.3	665.3	666.3
15°	642.6	645.6	652.5	656.4	658.4
17.5°	630.7	633.7	640.6	646.5	648.5
20°	615.9	622.9	627.8	635.7	636.7
22.5°	601.1	605.1	614.0	621.9	625.8
25°	583.4	588.3	602.1	609.0	612.0
27.5°	564.6	571.5	582.4	593.2	597.2
30°	545.9	550.8	564.6	577.4	581.4
32.5°	525.1	532.0	546.8	559.7	565.6
35°	504.4	511.3	527.1	542.9	548.8
37.5°	481.7	489.6	505.4	524.1	532.0
40°	460.0	465.9	484.7	507.4	514.3
42.5°	437.3	444.2	463.9	488.6	496.5
45°	412.6	420.5	442.2	467.9	477.7
47.5°	388.9	396.8	420.5	446.2	458.0
50°	364.2	374.1	397.8	427.4	439.3
52.5°	340.5	349.4	376.1	406.7	417.5
55°	313.9	323.8	353.4	385.0	398.8
57.5°	292.2	299.1	331.7	364.2	378.1
60°	265.5	274.4	308.0	342.5	358.3
62.5°	236.9	251.7	286.3	321.8	337.6
65°	213.2	225.1	264.5	299.1	313.9
67.5°	188.5	201.4	239.9	276.4	293.2
70°	160.9	177.7	218.1	254.7	270.5
72.5°	136.2	154.0	195.4	231.0	247.8
75°	111.5	130.3	170.8	205.3	221.1
77.5°	87.9	108.6	148.1	174.7	184.6
80°	65.1	84.9	119.4	138.2	146.1
82.5°	45.4	62.2	87.9	97.7	99.7
85°	28.6	39.5	53.3	59.2	58.2
87.5°	12.8	15.8	19.7	21.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)