

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: P277292

Luminaire Tested: **22CZ2-29HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277292
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: 22CZ2-29HE-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2521.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

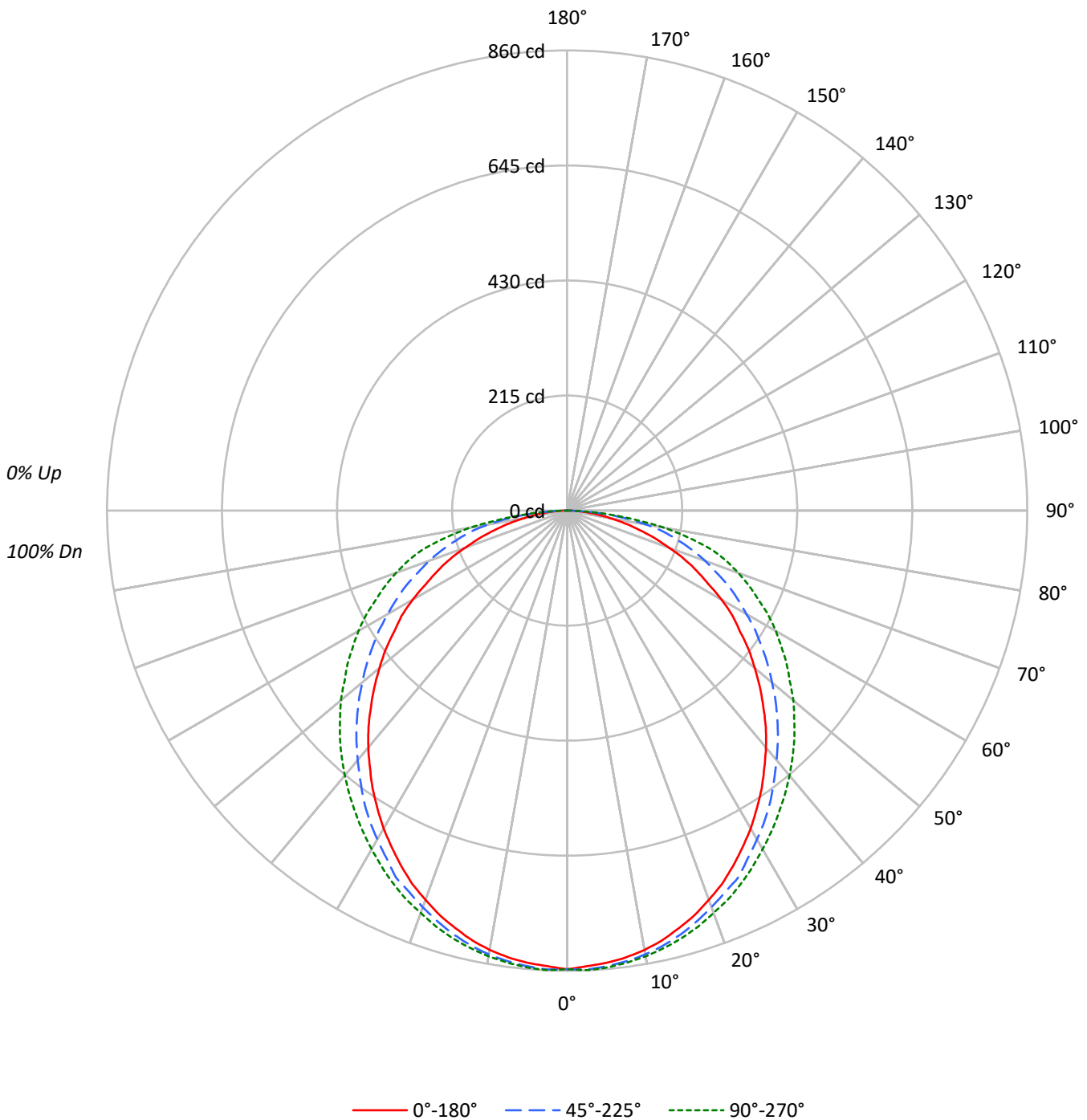
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277292

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P277292

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-6500K

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	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					100			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82					82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56					56			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48					48			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2307	2307	2307
5°	2292	2309	2316
10°	2278	2302	2312
15°	2250	2284	2305
20°	2217	2259	2291
25°	2177	2247	2284
30°	2132	2205	2270
35°	2082	2176	2266
40°	2031	2140	2270
45°	1973	2115	2285
50°	1916	2093	2311
55°	1851	2084	2351
60°	1796	2083	2423
65°	1706	2117	2512
70°	1591	2157	2674
75°	1458	2231	2889
80°	1269	2326	2845
85°	1112	2069	2260



TEST NUMBER: P277292

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	3.2
10°-20°	230.9	9.2
20°-30°	346.6	13.7
30°-40°	414.2	16.4
40°-50°	430.7	17.1
50°-60°	399.2	15.8
60°-70°	327.4	13.0
70°-80°	221.4	8.8
80°-90°	69.6	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°	658.6	26.1
0°-40°	1072.8	42.6
0°-60°	1902.7	75.5
0°-90°	2521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	848	850	855	856	857	81
15°	808	811	820	825	827	228
25°	733	739	757	765	769	338
35°	634	643	662	682	690	396
45°	518	528	556	588	600	400
55°	394	407	444	484	501	355
65°	268	283	332	376	394	265
75°	140	164	215	258	278	149
85°	36	50	67	74	73	41
90°	0	0	0	0	0	



TEST NUMBER: P277292

CATALOG NUMBER: 22CZ2-29HE-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.2	857.2	857.2	857.2	857.2
2.5°	852.2	854.7	858.4	859.7	859.7
5°	848.5	849.7	854.7	855.9	857.2
7.5°	842.3	844.8	849.7	851.0	852.2
10°	833.6	836.1	842.3	844.8	846.0
12.5°	822.5	824.9	832.4	836.1	837.3
15°	807.6	811.3	820.0	824.9	827.4
17.5°	792.7	796.4	805.1	812.5	815.0
20°	774.1	782.8	789.0	798.9	800.1
22.5°	755.5	760.4	771.6	781.5	786.5
25°	733.1	739.3	756.7	765.4	769.1
27.5°	709.6	718.3	731.9	745.5	750.5
30°	686.0	692.2	709.6	725.7	730.7
32.5°	659.9	668.6	687.2	703.4	710.8
35°	633.9	642.6	662.4	682.3	689.7
37.5°	605.4	615.3	635.1	658.7	668.6
40°	578.1	585.5	609.1	637.6	646.3
42.5°	549.5	558.2	583.0	614.0	624.0
45°	518.5	528.5	555.7	588.0	600.4
47.5°	488.8	498.7	528.5	560.7	575.6
50°	457.7	470.2	499.9	537.1	552.0
52.5°	428.0	439.1	472.6	511.1	524.7
55°	394.5	406.9	444.1	483.8	501.2
57.5°	367.2	375.9	416.8	457.7	475.1
60°	333.7	344.9	387.0	430.5	450.3
62.5°	297.7	316.3	359.7	404.4	424.3
65°	267.9	282.8	332.5	375.9	394.5
67.5°	236.9	253.1	301.4	347.3	368.4
70°	202.2	223.3	274.2	320.0	339.9
72.5°	171.2	193.5	245.6	290.3	311.4
75°	140.2	163.7	214.6	258.0	277.9
77.5°	110.4	136.5	186.1	219.6	232.0
80°	81.9	106.7	150.1	173.7	183.6
82.5°	57.1	78.2	110.4	122.8	125.3
85°	36.0	49.6	67.0	74.4	73.2
87.5°	16.1	19.8	24.8	27.3	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)