

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: P275523

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 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: 2561.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

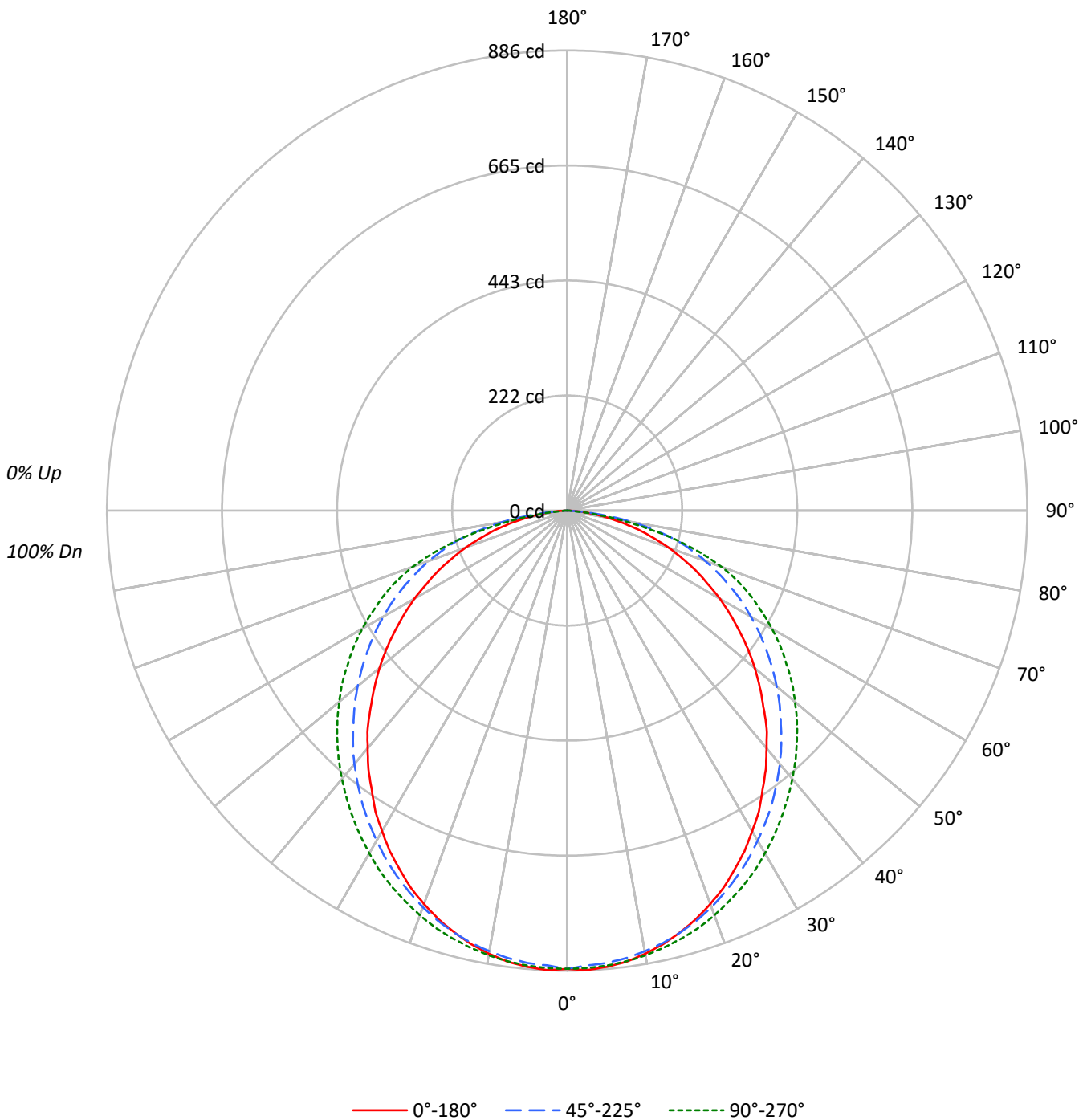
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275523

CATALOG NUMBER: 14CZ2-29-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P275523

CATALOG NUMBER: 14CZ2-29-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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2374	2374	2374
5°	2382	2362	2375
10°	2367	2355	2376
15°	2342	2344	2375
20°	2308	2327	2375
25°	2264	2304	2372
30°	2215	2280	2367
35°	2155	2260	2366
40°	2098	2239	2369
45°	2034	2214	2382
50°	1975	2204	2398
55°	1900	2197	2419
60°	1831	2201	2453
65°	1738	2207	2491
70°	1631	2224	2489
75°	1478	2245	2250
80°	1212	1939	1602
85°	898	917	371



TEST NUMBER: P275523

CATALOG NUMBER: 14CZ2-29-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.3
10°-20°	238.5	9.3
20°-30°	359.3	14.0
30°-40°	431.1	16.8
40°-50°	449.3	17.5
50°-60°	416.0	16.2
60°-70°	336.1	13.1
70°-80°	204.9	8.0
80°-90°	42.3	1.7
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°	681.2	26.6
0°-40°	1112.3	43.4
0°-60°	1977.7	77.2
0°-90°	2561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	882	879	874	881	879	84
15°	841	841	841	853	853	237
25°	762	767	776	796	799	351
35°	656	666	688	713	720	411
45°	534	550	582	614	626	413
55°	405	426	468	505	516	363
65°	273	300	347	382	391	270
75°	142	174	216	219	216	149
85°	29	43	30	17	12	36
90°	0	0	0	0	0	



TEST NUMBER: P275523

CATALOG NUMBER: 14CZ2-29-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.3	882.3	882.3	882.3	882.3
2.5°	885.7	882.8	876.6	882.8	881.7
5°	881.7	879.4	874.3	880.6	879.4
7.5°	876.0	873.7	869.1	876.6	875.4
10°	866.3	865.1	861.7	870.3	869.7
12.5°	854.9	854.3	852.6	862.3	861.7
15°	840.6	841.2	841.2	852.6	852.6
17.5°	824.6	825.7	828.0	840.6	842.3
20°	805.8	808.0	812.6	826.9	829.2
22.5°	786.3	788.0	794.9	812.0	814.3
25°	762.4	766.9	776.1	795.5	798.9
27.5°	739.5	743.5	756.1	776.1	781.8
30°	712.7	719.0	733.8	755.5	761.8
32.5°	687.0	693.8	711.0	736.1	741.8
35°	656.1	666.4	688.1	713.2	720.1
37.5°	628.2	637.9	662.4	689.8	697.8
40°	597.3	609.3	637.3	666.4	674.4
42.5°	568.8	580.2	610.5	640.1	651.0
45°	534.5	550.5	581.9	614.5	625.9
47.5°	503.1	519.1	555.1	589.9	600.2
50°	471.7	488.8	526.5	562.5	572.8
52.5°	439.1	457.4	498.0	533.9	545.9
55°	404.9	426.0	468.3	504.8	515.7
57.5°	372.3	394.0	439.1	476.3	487.1
60°	340.3	362.6	408.9	444.3	455.7
62.5°	304.9	331.2	379.2	414.0	422.6
65°	273.0	299.8	346.6	381.5	391.2
67.5°	239.3	268.4	315.2	347.2	356.3
70°	207.3	237.6	282.7	312.4	316.4
72.5°	173.0	203.9	249.5	268.4	268.4
75°	142.2	173.6	215.9	219.3	216.4
77.5°	108.5	143.3	170.7	163.9	157.0
80°	78.2	112.5	125.1	112.5	103.4
82.5°	52.5	81.7	75.4	60.0	53.1
85°	29.1	43.4	29.7	16.6	12.0
87.5°	10.8	9.7	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)