

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: P275891

Luminaire Tested: **14CZ2-44-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2619.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

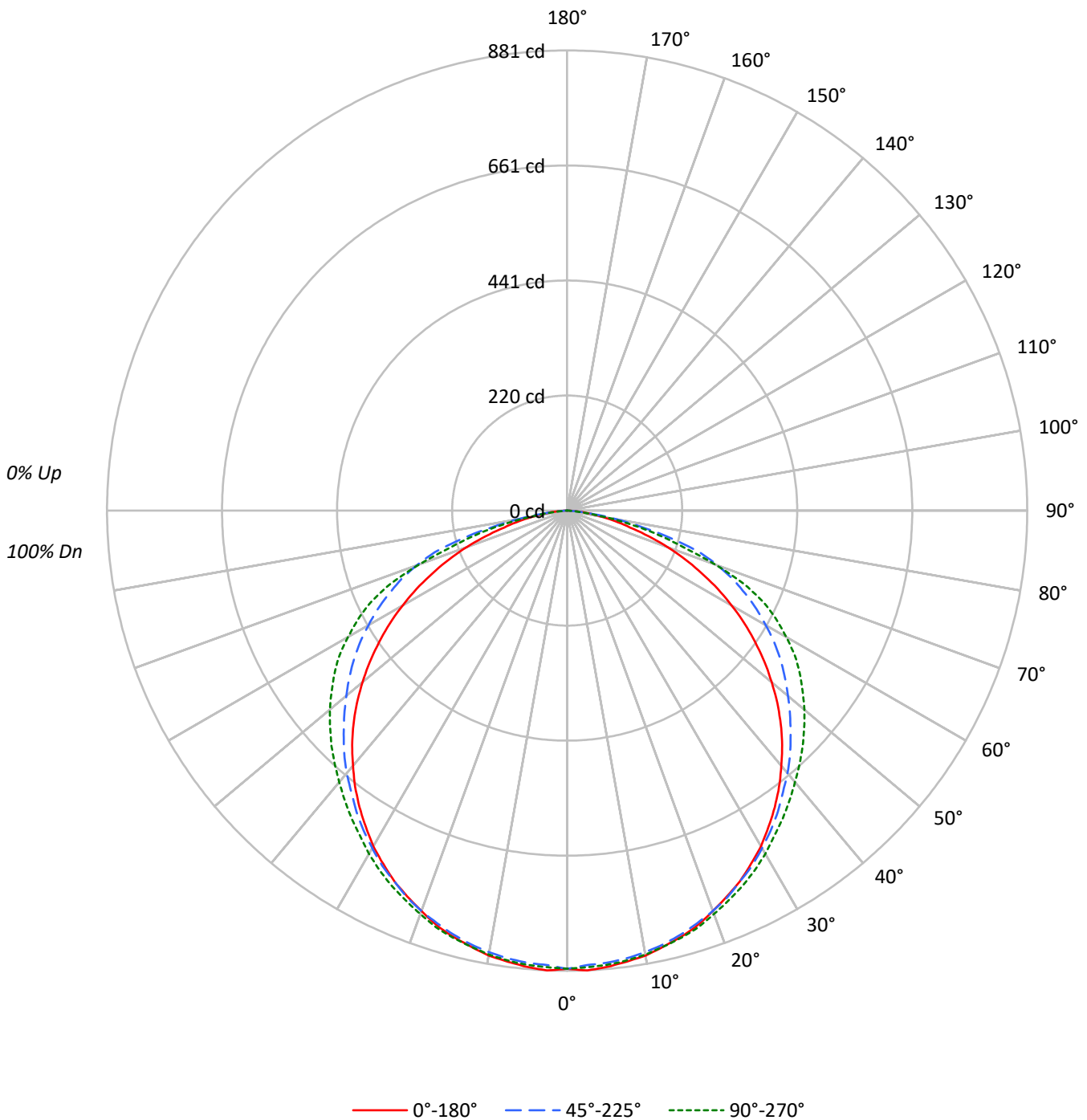
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275891

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P275891

CATALOG NUMBER: 14CZ2-44-RDP-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2361	2361	2361
5°	2370	2347	2358
10°	2363	2347	2358
15°	2353	2341	2358
20°	2336	2336	2354
25°	2325	2325	2355
30°	2306	2319	2357
35°	2277	2311	2364
40°	2241	2305	2385
45°	2202	2303	2428
50°	2140	2311	2483
55°	2062	2341	2552
60°	1959	2366	2608
65°	1810	2395	2643
70°	1609	2413	2365
75°	1297	2169	1892
80°	1013	1520	1235
85°	695	442	315



TEST NUMBER: P275891

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.2
10°-20°	238.2	9.1
20°-30°	362.7	13.8
30°-40°	441.8	16.9
40°-50°	468.7	17.9
50°-60°	442.3	16.9
60°-70°	357.2	13.6
70°-80°	193.7	7.4
80°-90°	31.3	1.2
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°	683.9	26.1
0°-40°	1125.7	43.0
0°-60°	2036.7	77.8
0°-90°	2619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	877	875	869	875	873	83
15°	844	842	840	846	846	238
25°	783	781	783	791	793	361
35°	693	697	703	718	720	433
45°	579	587	605	628	638	446
55°	440	458	499	532	544	393
65°	284	319	376	407	415	282
75°	125	182	209	188	182	136
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



TEST NUMBER: P275891

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.2	877.2	877.2	877.2	877.2
2.5°	881.3	877.2	871.0	877.2	875.1
5°	877.2	875.1	869.0	875.1	873.1
7.5°	871.0	871.0	864.9	869.0	869.0
10°	864.9	862.9	858.8	864.9	862.9
12.5°	854.7	852.6	850.6	856.7	854.7
15°	844.5	842.4	840.4	846.5	846.5
17.5°	832.2	830.1	828.1	836.3	836.3
20°	815.8	815.8	815.8	824.0	822.0
22.5°	799.5	799.5	801.5	809.7	807.7
25°	783.1	781.1	783.1	791.3	793.3
27.5°	762.7	764.7	766.8	774.9	777.0
30°	742.2	744.3	746.3	756.5	758.6
32.5°	717.7	721.8	725.9	738.1	738.1
35°	693.1	697.2	703.4	717.7	719.7
37.5°	666.6	670.7	678.8	695.2	699.3
40°	637.9	644.1	656.3	672.7	678.8
42.5°	609.3	617.5	631.8	650.2	658.4
45°	578.6	586.8	605.2	627.7	637.9
47.5°	545.9	556.2	578.6	607.3	615.5
50°	511.2	525.5	552.1	582.7	593.0
52.5°	476.4	492.8	525.5	558.2	568.4
55°	439.6	458.0	498.9	531.6	543.9
57.5°	402.8	423.2	470.3	505.0	517.3
60°	364.0	388.5	439.6	474.4	484.6
62.5°	325.1	353.7	408.9	443.7	451.9
65°	284.2	319.0	376.2	406.9	415.1
67.5°	245.4	286.3	343.5	366.0	366.0
70°	204.5	249.5	306.7	312.8	300.6
72.5°	163.6	214.7	265.8	243.3	233.1
75°	124.7	182.0	208.6	188.1	182.0
77.5°	94.1	147.2	147.2	134.9	130.9
80°	65.4	112.5	98.1	85.9	79.7
82.5°	42.9	63.4	51.1	40.9	34.8
85°	22.5	24.5	14.3	12.3	10.2
87.5°	8.2	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)