

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: P275549

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275549
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: 14CZ2-44-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3679.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

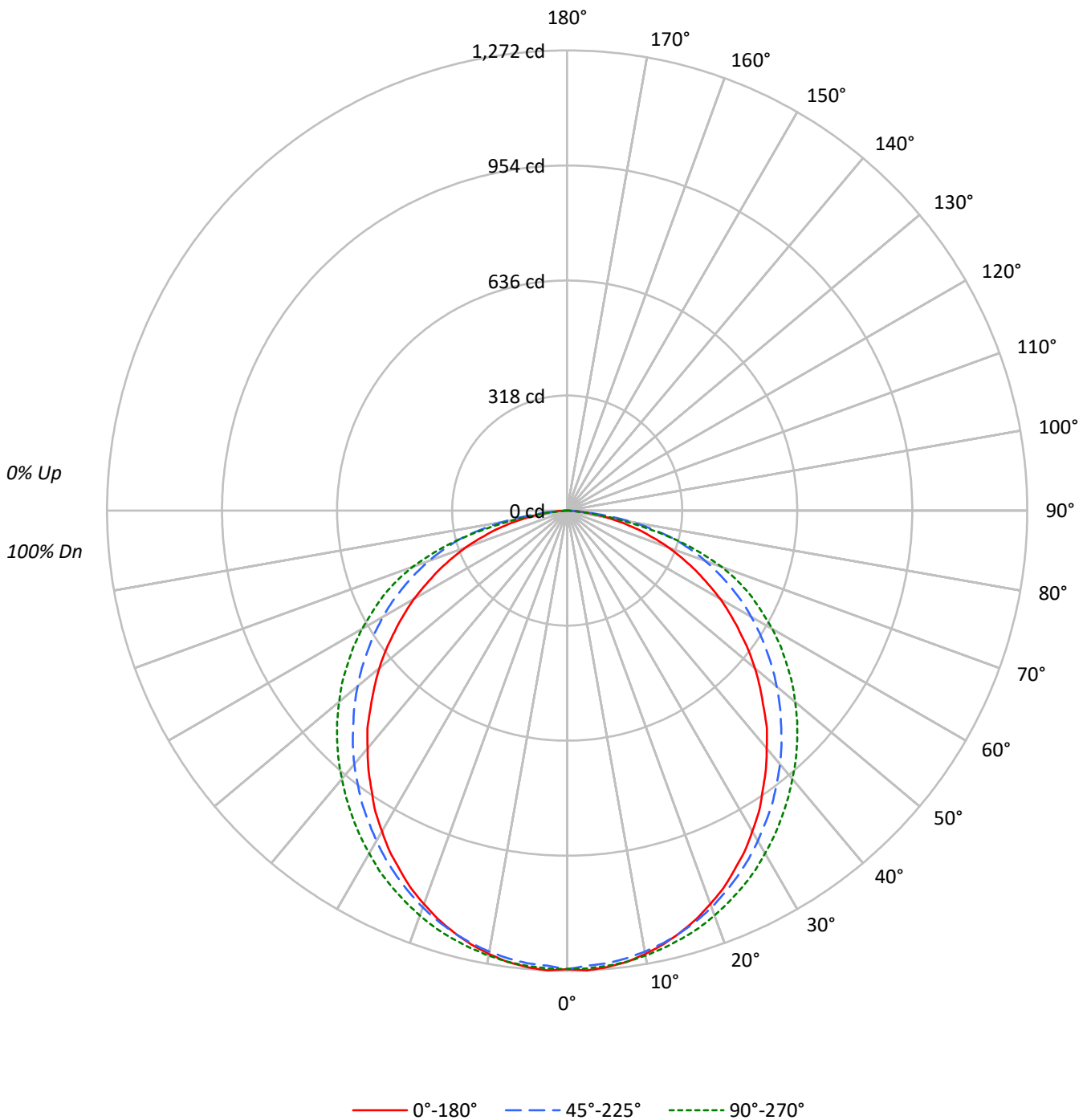
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275549

CATALOG NUMBER: 14CZ2-44-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P275549

CATALOG NUMBER: 14CZ2-44-UNV-L92765-W2A1-U-3500K

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°	3411	3411	3411
5°	3421	3393	3412
10°	3401	3383	3414
15°	3364	3366	3412
20°	3315	3343	3411
25°	3252	3310	3408
30°	3181	3275	3400
35°	3097	3247	3398
40°	3014	3216	3403
45°	2922	3181	3422
50°	2837	3167	3445
55°	2729	3156	3476
60°	2631	3161	3523
65°	2497	3170	3578
70°	2343	3195	3576
75°	2124	3224	3232
80°	1742	2785	2301
85°	1291	1318	531



TEST NUMBER: P275549

CATALOG NUMBER: 14CZ2-44-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.3
10°-20°	342.6	9.3
20°-30°	516.1	14.0
30°-40°	619.3	16.8
40°-50°	645.5	17.5
50°-60°	597.6	16.2
60°-70°	482.8	13.1
70°-80°	294.4	8.0
80°-90°	60.8	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°	978.6	26.6
0°-40°	1597.9	43.4
0°-60°	2841.0	77.2
0°-90°	3679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1267	1263	1256	1265	1263	120
15°	1208	1208	1208	1225	1225	340
25°	1095	1102	1115	1143	1148	505
35°	943	957	988	1025	1034	590
45°	768	791	836	883	899	593
55°	582	612	673	725	741	521
65°	392	431	498	548	562	388
75°	204	249	310	315	311	215
85°	42	62	43	24	17	51
90°	0	0	0	0	0	



TEST NUMBER: P275549

CATALOG NUMBER: 14CZ2-44-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.4	1267.4	1267.4	1267.4	1267.4
2.5°	1272.3	1268.2	1259.2	1268.2	1266.6
5°	1266.6	1263.3	1255.9	1265.0	1263.3
7.5°	1258.4	1255.1	1248.6	1259.2	1257.6
10°	1244.5	1242.8	1237.9	1250.2	1249.4
12.5°	1228.1	1227.2	1224.8	1238.7	1237.9
15°	1207.5	1208.4	1208.4	1224.8	1224.8
17.5°	1184.6	1186.2	1189.5	1207.5	1210.0
20°	1157.5	1160.8	1167.3	1187.9	1191.1
22.5°	1129.6	1132.1	1141.9	1166.5	1169.8
25°	1095.2	1101.7	1114.8	1142.7	1147.7
27.5°	1062.3	1068.1	1086.1	1114.8	1123.0
30°	1023.8	1032.8	1054.1	1085.3	1094.3
32.5°	986.9	996.7	1021.3	1057.4	1065.6
35°	942.6	957.3	988.5	1024.6	1034.5
37.5°	902.4	916.3	951.6	991.0	1002.5
40°	858.1	875.3	915.5	957.3	968.8
42.5°	817.1	833.5	876.9	919.6	935.2
45°	767.8	790.8	835.9	882.7	899.1
47.5°	722.7	745.7	797.4	847.4	862.2
50°	677.6	702.2	756.4	808.0	822.8
52.5°	630.8	657.1	715.3	767.0	784.2
55°	581.6	612.0	672.7	725.2	740.8
57.5°	534.9	566.0	630.8	684.2	699.8
60°	488.9	520.9	587.4	638.2	654.6
62.5°	438.1	475.8	544.7	594.7	607.1
65°	392.1	430.7	497.9	548.0	561.9
67.5°	343.7	385.6	452.8	498.8	511.9
70°	297.8	341.3	406.1	448.7	454.5
72.5°	248.6	292.9	358.5	385.6	385.6
75°	204.3	249.4	310.1	315.0	310.9
77.5°	155.9	205.9	245.3	235.4	225.6
80°	112.4	161.6	179.7	161.6	148.5
82.5°	75.5	117.3	108.3	86.1	76.3
85°	41.8	62.3	42.7	23.8	17.2
87.5°	15.6	13.9	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)