

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: P275395

Luminaire Tested: **14CZ2-25-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275395
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: 14CZ2-25-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2547.0 lumens
Efficiency: N/A
Efficacy: 136.3 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

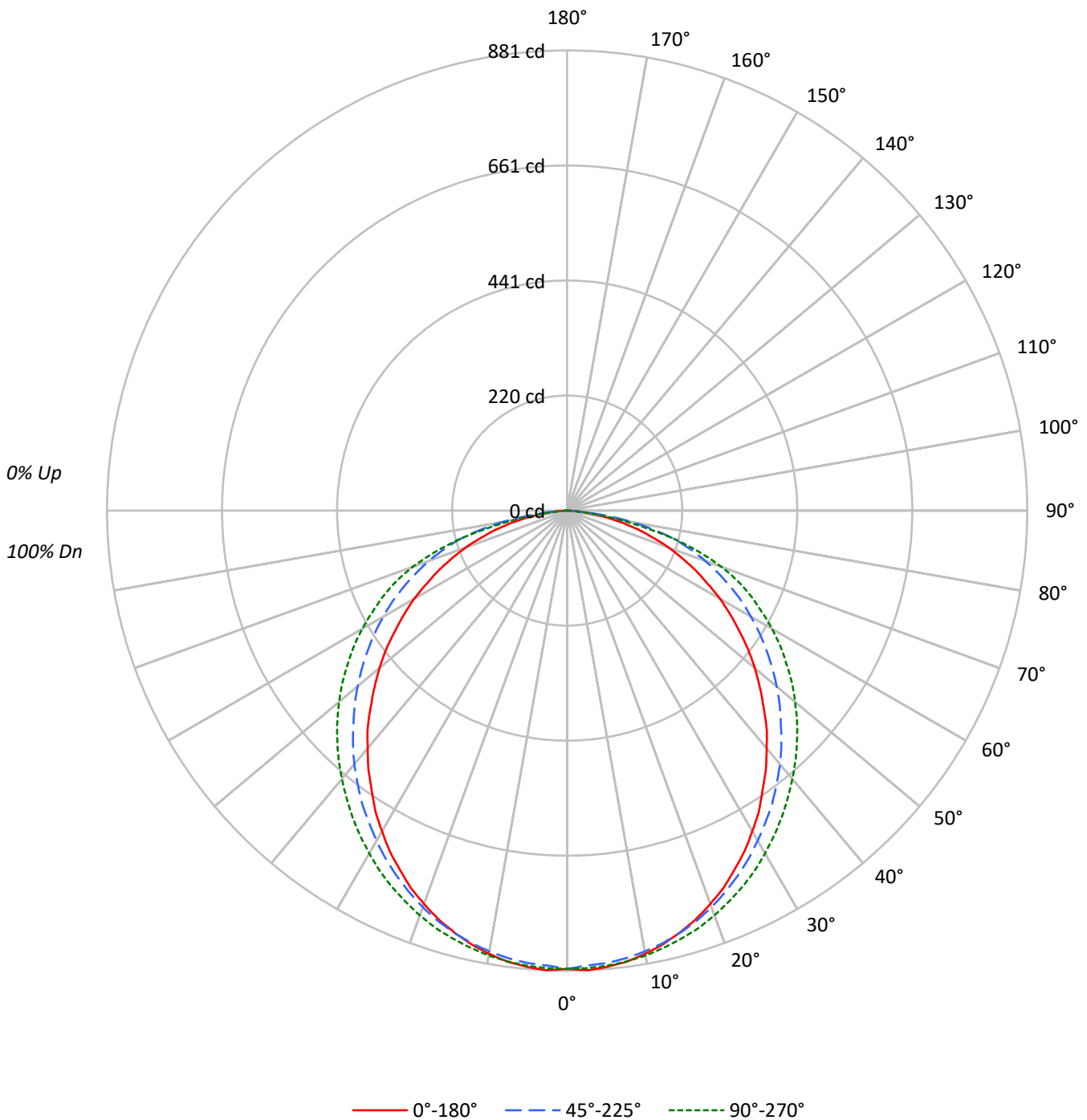
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275395

CATALOG NUMBER: 14CZ2-25-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P275395

CATALOG NUMBER: 14CZ2-25-UNV-L83050-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°	2361	2361	2361
5°	2369	2349	2363
10°	2354	2342	2364
15°	2329	2331	2362
20°	2295	2314	2361
25°	2251	2292	2359
30°	2202	2268	2354
35°	2144	2248	2353
40°	2087	2226	2356
45°	2023	2202	2369
50°	1964	2192	2385
55°	1889	2185	2406
60°	1822	2188	2439
65°	1729	2195	2477
70°	1622	2212	2475
75°	1470	2232	2237
80°	1206	1928	1593
85°	895	911	367



TEST NUMBER: P275395

CATALOG NUMBER: 14CZ2-25-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.3
10°-20°	237.2	9.3
20°-30°	357.3	14.0
30°-40°	428.8	16.8
40°-50°	446.9	17.5
50°-60°	413.7	16.2
60°-70°	334.3	13.1
70°-80°	203.8	8.0
80°-90°	42.1	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°	677.5	26.6
0°-40°	1106.3	43.4
0°-60°	1966.8	77.2
0°-90°	2547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	877	875	870	876	875	83
15°	836	837	837	848	848	236
25°	758	763	772	791	794	349
35°	653	663	684	709	716	409
45°	532	548	579	611	622	411
55°	403	424	466	502	513	361
65°	272	298	345	379	389	268
75°	141	173	215	218	215	149
85°	29	43	30	16	12	36
90°	0	0	0	0	0	



TEST NUMBER: P275395

CATALOG NUMBER: 14CZ2-25-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.4	877.4	877.4	877.4	877.4
2.5°	880.9	878.0	871.8	878.0	876.9
5°	876.9	874.6	869.5	875.7	874.6
7.5°	871.2	868.9	864.4	871.8	870.6
10°	861.5	860.4	857.0	865.5	865.0
12.5°	850.2	849.6	847.9	857.6	857.0
15°	836.0	836.6	836.6	847.9	847.9
17.5°	820.1	821.2	823.5	836.0	837.7
20°	801.3	803.6	808.2	822.4	824.6
22.5°	782.0	783.7	790.6	807.6	809.9
25°	758.2	762.7	771.8	791.1	794.5
27.5°	735.5	739.4	751.9	771.8	777.5
30°	708.8	715.0	729.8	751.4	757.6
32.5°	683.2	690.0	707.1	732.1	737.7
35°	652.6	662.8	684.4	709.3	716.2
37.5°	624.7	634.4	658.8	686.1	694.0
40°	594.1	606.0	633.8	662.8	670.7
42.5°	565.7	577.0	607.1	636.6	647.4
45°	531.6	547.5	578.7	611.1	622.4
47.5°	500.3	516.2	552.0	586.7	596.9
50°	469.1	486.1	523.6	559.4	569.6
52.5°	436.7	454.9	495.2	531.0	542.9
55°	402.7	423.7	465.7	502.0	512.8
57.5°	370.3	391.9	436.7	473.7	484.4
60°	338.5	360.6	406.6	441.8	453.2
62.5°	303.3	329.4	377.1	411.7	420.3
65°	271.5	298.2	344.7	379.4	389.0
67.5°	238.0	266.9	313.5	345.3	354.4
70°	206.2	236.3	281.1	310.7	314.6
72.5°	172.1	202.8	248.2	266.9	266.9
75°	141.4	172.7	214.7	218.1	215.2
77.5°	107.9	142.6	169.8	163.0	156.2
80°	77.8	111.9	124.4	111.9	102.8
82.5°	52.2	81.2	75.0	59.6	52.8
85°	29.0	43.2	29.5	16.5	11.9
87.5°	10.8	9.7	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)