

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: P258669

Luminaire Tested: **14CZ-LD5-29-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2396.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

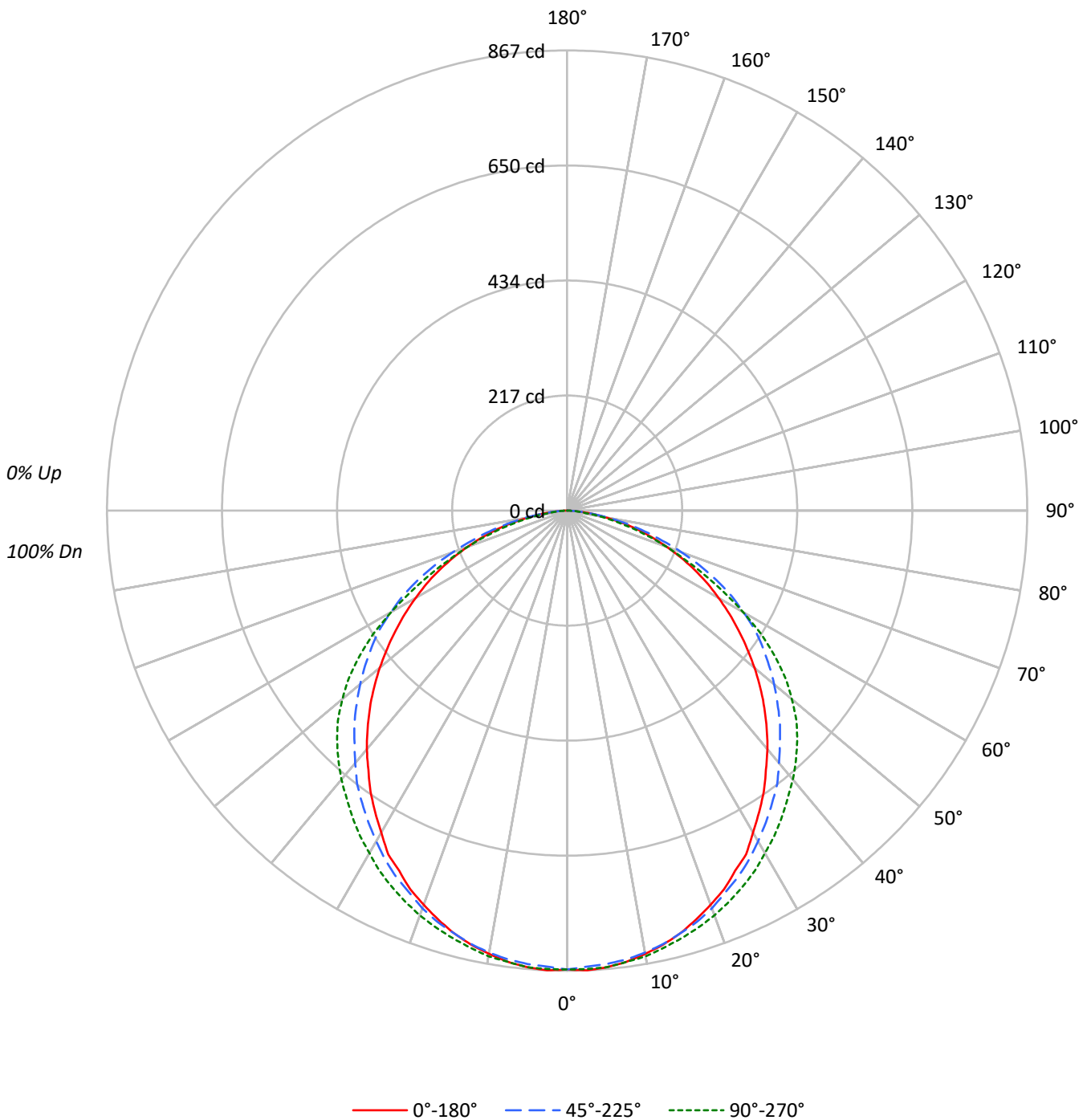
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2327	2327	2327
5°	2333	2317	2333
10°	2317	2311	2330
15°	2297	2297	2323
20°	2263	2283	2324
25°	2224	2262	2322
30°	2177	2235	2316
35°	2122	2212	2317
40°	2062	2183	2324
45°	2000	2158	2333
50°	1929	2131	2314
55°	1851	2111	2239
60°	1774	2066	2060
65°	1692	1978	1805
70°	1570	1803	1561
75°	1424	1572	1289
80°	1134	1244	951
85°	803	692	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.4
10°-20°	233.7	9.8
20°-30°	352.4	14.7
30°-40°	422.4	17.6
40°-50°	438.4	18.3
50°-60°	395.4	16.5
60°-70°	288.4	12.0
70°-80°	151.3	6.3
80°-90°	32.3	1.3
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°	667.9	27.9
0°-40°	1090.3	45.5
0°-60°	1924.0	80.3
0°-90°	2396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	864	861	858	864	864	82
15°	824	824	824	834	834	232
25°	749	752	762	778	782	346
35°	646	653	673	698	705	404
45°	526	536	567	601	613	405
55°	394	409	450	480	477	353
65°	266	281	311	299	284	263
75°	137	156	151	131	124	144
85°	26	32	22	19	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.6	864.6	864.6	864.6	864.6
2.5°	867.0	864.6	859.9	864.6	864.6
5°	863.5	861.1	857.6	863.5	863.5
7.5°	857.6	855.2	852.8	858.7	857.6
10°	848.1	846.9	845.7	852.8	852.8
12.5°	837.5	837.5	836.3	844.6	843.4
15°	824.5	824.5	824.5	833.9	833.9
17.5°	808.0	810.3	812.7	823.3	823.3
20°	790.2	792.6	797.3	810.3	811.5
22.5°	772.5	773.7	778.4	793.8	797.3
25°	748.9	752.4	761.9	778.4	782.0
27.5°	730.0	731.2	741.8	760.7	765.4
30°	700.5	708.7	719.4	740.6	745.3
32.5°	673.3	680.4	696.9	719.4	726.4
35°	646.1	653.2	673.3	698.1	705.2
37.5°	615.4	626.0	649.7	674.5	682.7
40°	587.1	596.5	621.3	652.0	661.5
42.5°	556.4	565.8	593.0	627.2	637.9
45°	525.6	536.3	567.0	601.2	613.1
47.5°	493.7	505.6	537.5	575.3	585.9
50°	460.7	473.7	509.1	548.1	552.8
52.5°	427.6	441.8	479.6	513.8	518.6
55°	394.5	408.7	450.0	479.6	477.2
57.5°	362.6	378.0	420.5	435.9	433.5
60°	329.6	346.1	383.9	391.0	382.7
62.5°	298.8	314.2	349.6	343.7	333.1
65°	265.8	281.1	310.7	298.8	283.5
67.5°	232.7	251.6	270.5	250.4	238.6
70°	199.6	220.9	229.2	209.1	198.4
72.5°	167.7	190.2	187.8	167.7	160.6
75°	137.0	155.9	151.2	131.1	124.0
77.5°	103.9	125.2	114.6	98.0	92.1
80°	73.2	92.1	80.3	66.1	61.4
82.5°	48.4	61.4	49.6	39.0	35.4
85°	26.0	31.9	22.4	18.9	17.7
87.5°	10.6	9.4	8.3	8.3	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)