

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: P275464

Luminaire Tested: **14CZ2-25-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275464  
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-L82765-W2A1-U-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2529.0 lumens  
Efficiency: N/A  
Efficacy: 134.6 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

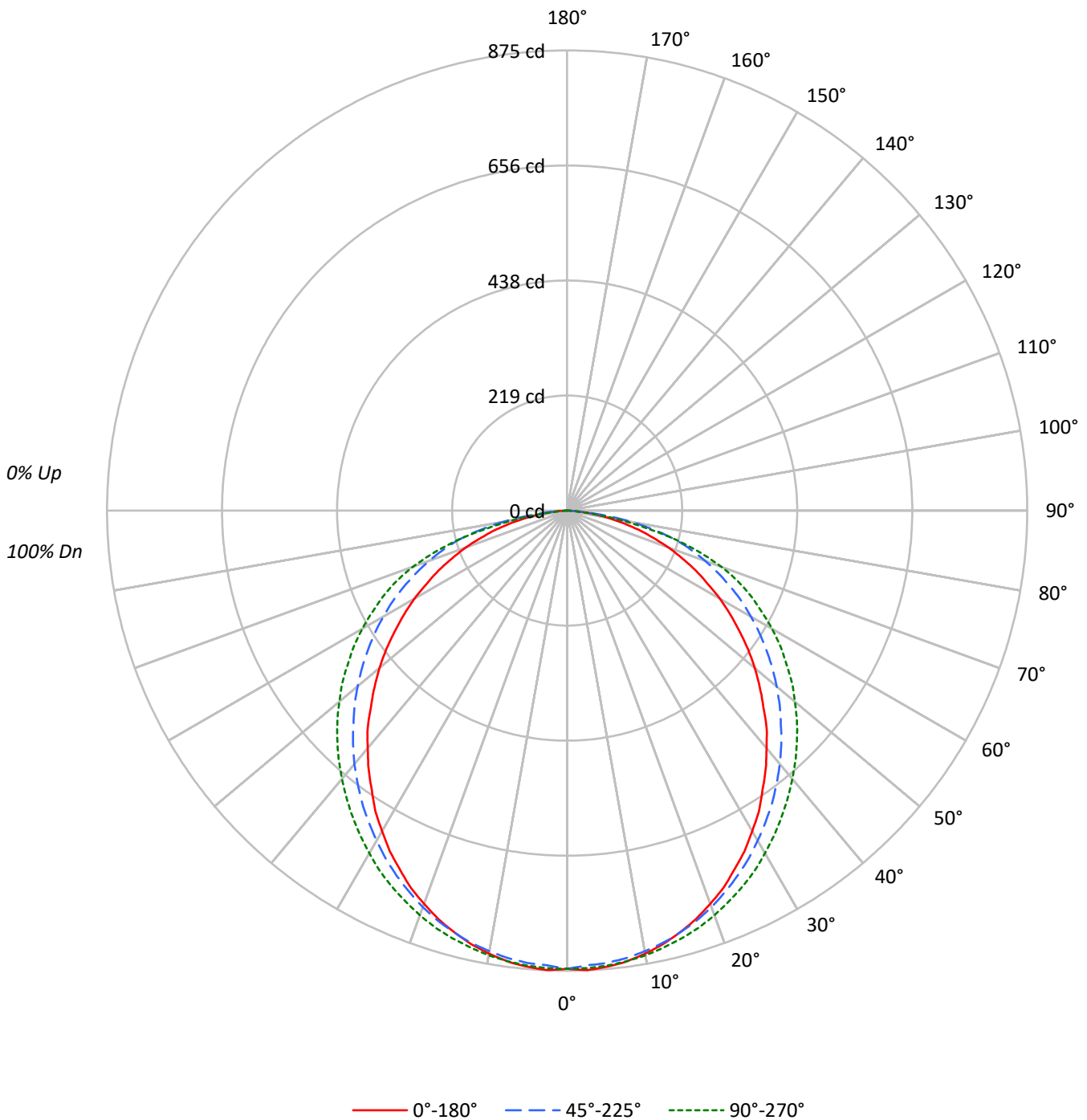
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2344	2344	2344
5°	2352	2332	2346
10°	2338	2325	2347
15°	2313	2314	2345
20°	2279	2298	2345
25°	2235	2276	2342
30°	2187	2252	2338
35°	2128	2232	2336
40°	2072	2211	2340
45°	2009	2187	2352
50°	1950	2177	2368
55°	1876	2169	2389
60°	1809	2173	2422
65°	1717	2180	2460
70°	1611	2196	2458
75°	1460	2217	2222
80°	1198	1914	1582
85°	889	905	364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	3.3
10°-20°	235.5	9.3
20°-30°	354.8	14.0
30°-40°	425.7	16.8
40°-50°	443.7	17.5
50°-60°	410.8	16.2
60°-70°	331.9	13.1
70°-80°	202.4	8.0
80°-90°	41.8	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°	672.7	26.6
0°-40°	1098.4	43.4
0°-60°	1952.9	77.2
0°-90°	2529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2529.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	871	868	863	870	868	83
15°	830	831	831	842	842	234
25°	753	757	766	786	789	347
35°	648	658	680	704	711	406
45°	528	544	575	607	618	408
55°	400	421	462	498	509	358
65°	270	296	342	377	386	267
75°	140	171	213	216	214	147
85°	29	43	29	16	12	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	871.2	871.2	871.2	871.2	871.2
2.5°	874.6	871.8	865.6	871.8	870.7
5°	870.7	868.4	863.4	869.6	868.4
7.5°	865.0	862.8	858.3	865.6	864.5
10°	855.5	854.3	850.9	859.4	858.8
12.5°	844.2	843.6	841.9	851.5	850.9
15°	830.1	830.6	830.6	841.9	841.9
17.5°	814.3	815.4	817.7	830.1	831.8
20°	795.7	797.9	802.5	816.5	818.8
22.5°	776.5	778.2	785.0	801.9	804.1
25°	752.8	757.3	766.4	785.5	788.9
27.5°	730.3	734.2	746.6	766.4	772.0
30°	703.8	710.0	724.6	746.1	752.3
32.5°	678.4	685.2	702.1	726.9	732.5
35°	647.9	658.1	679.5	704.3	711.1
37.5°	620.3	629.9	654.1	681.2	689.1
40°	589.9	601.7	629.3	658.1	666.0
42.5°	561.7	572.9	602.8	632.1	642.9
45°	527.8	543.6	574.6	606.8	618.1
47.5°	496.8	512.6	548.1	582.5	592.7
50°	465.8	482.7	519.9	555.5	565.6
52.5°	433.7	451.7	491.7	527.3	539.1
55°	399.8	420.7	462.4	498.5	509.2
57.5°	367.7	389.1	433.7	470.3	481.0
60°	336.1	358.1	403.8	438.7	450.0
62.5°	301.1	327.1	374.4	408.8	417.3
65°	269.6	296.1	342.3	376.7	386.3
67.5°	236.3	265.0	311.3	342.9	351.9
70°	204.7	234.6	279.1	308.5	312.4
72.5°	170.9	201.3	246.4	265.0	265.0
75°	140.4	171.4	213.2	216.5	213.7
77.5°	107.1	141.5	168.6	161.8	155.1
80°	77.3	111.1	123.5	111.1	102.1
82.5°	51.9	80.6	74.4	59.2	52.4
85°	28.8	42.9	29.3	16.4	11.8
87.5°	10.7	9.6	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)