

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: P275691

Luminaire Tested: **14CZ2-29-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-S-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2588.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

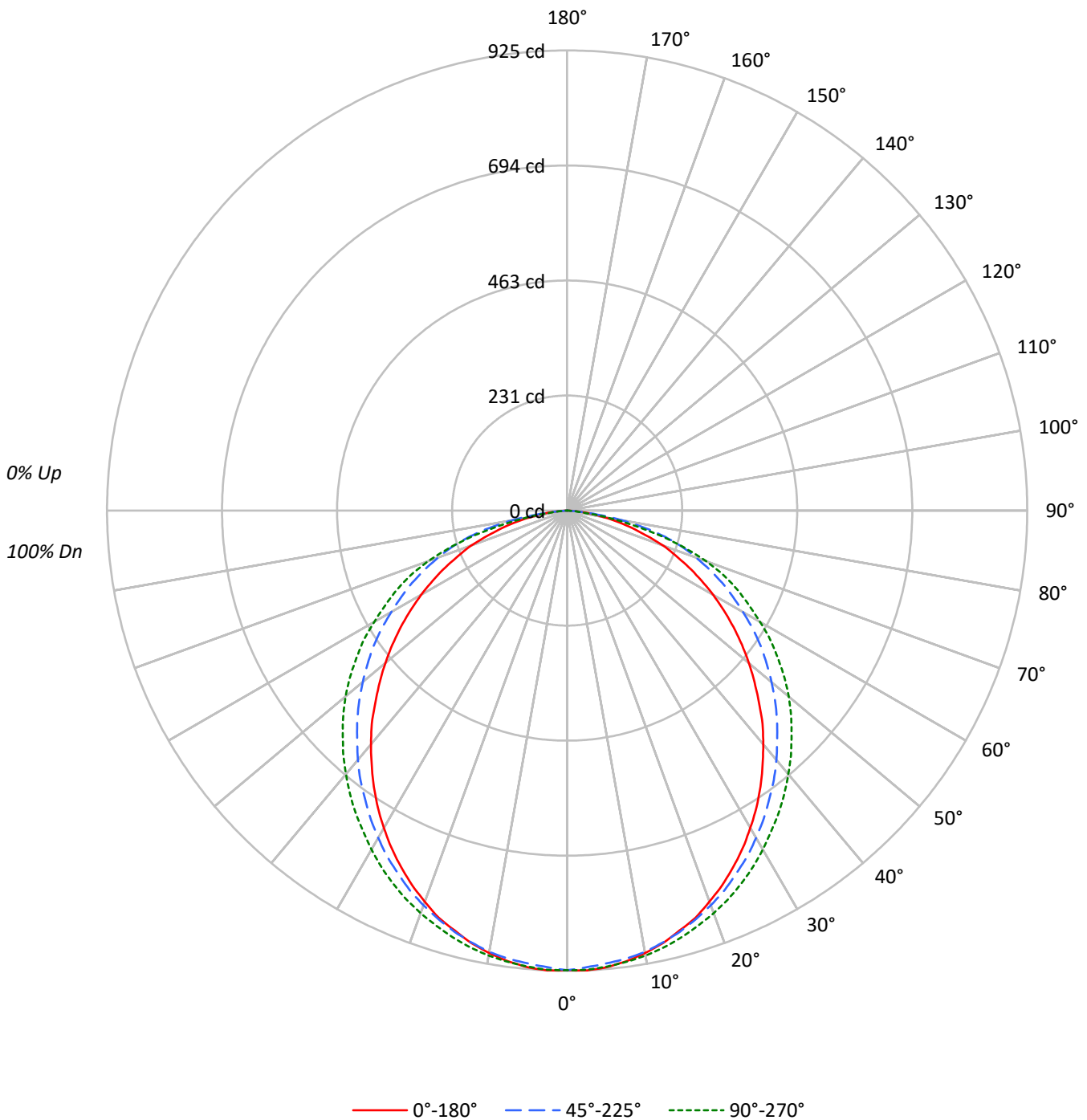
Input Watts (W): 22.413  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	97	94	91		94	91	89		90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2486	2486	2486
5°	2489	2468	2485
10°	2468	2461	2482
15°	2434	2442	2474
20°	2396	2418	2466
25°	2347	2389	2457
30°	2289	2360	2444
35°	2226	2327	2437
40°	2154	2299	2429
45°	2075	2271	2427
50°	1998	2246	2434
55°	1914	2228	2426
60°	1823	2196	2410
65°	1716	2190	2410
70°	1615	2171	2342
75°	1400	2121	2001
80°	1133	1711	1333
85°	753	593	395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	3.4
10°-20°	248.2	9.6
20°-30°	372.4	14.4
30°-40°	444.2	17.2
40°-50°	459.2	17.7
50°-60°	419.3	16.2
60°-70°	330.0	12.7
70°-80°	192.1	7.4
80°-90°	35.4	1.4
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°	707.9	27.4
0°-40°	1152.1	44.5
0°-60°	2030.6	78.5
0°-90°	2588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2588.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	921	919	914	921	920	87
15°	874	875	876	888	888	247
25°	790	794	804	824	828	364
35°	678	686	708	735	742	423
45°	545	563	597	630	638	421
55°	408	430	475	509	517	365
65°	270	298	344	371	378	268
75°	135	167	204	200	192	143
85°	24	35	19	15	13	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.9	923.9	923.9	923.9	923.9
2.5°	925.2	922.6	918.7	925.2	923.9
5°	921.3	918.7	913.6	921.3	920.0
7.5°	913.6	911.0	908.5	916.2	914.9
10°	903.3	902.1	900.8	909.8	908.5
12.5°	890.5	890.5	889.2	899.5	899.5
15°	873.8	875.1	876.4	887.9	887.9
17.5°	858.4	857.1	861.0	873.8	875.1
20°	836.6	839.2	844.3	859.7	861.0
22.5°	814.8	817.4	826.4	841.8	845.6
25°	790.4	794.3	804.5	823.8	827.6
27.5°	764.8	769.9	784.0	804.5	808.4
30°	736.5	744.2	759.6	782.7	786.6
32.5°	708.3	716.0	735.2	758.3	763.5
35°	677.5	686.5	708.3	735.2	741.7
37.5°	645.4	657.0	682.6	709.6	717.3
40°	613.3	626.2	654.4	682.6	691.6
42.5°	581.3	594.1	624.9	657.0	666.0
45°	545.3	563.3	596.7	630.0	637.7
47.5°	510.7	529.9	567.2	600.5	610.8
50°	477.3	496.6	536.4	571.0	581.3
52.5°	442.7	463.2	505.6	541.5	550.5
55°	408.0	429.9	474.8	509.4	517.1
57.5°	373.4	396.5	442.7	476.1	485.0
60°	338.8	363.1	408.0	441.4	447.8
62.5°	304.1	329.8	376.0	405.5	411.9
65°	269.5	297.7	343.9	370.8	378.5
67.5°	236.1	264.3	309.2	334.9	341.3
70°	205.3	231.0	275.9	295.1	297.7
72.5°	166.8	198.9	242.5	252.8	246.4
75°	134.7	166.8	204.0	200.2	192.5
77.5°	102.7	134.7	159.1	146.3	136.0
80°	73.1	105.2	110.4	91.1	86.0
82.5°	47.5	73.1	61.6	47.5	38.5
85°	24.4	34.6	19.2	15.4	12.8
87.5°	7.7	5.1	2.6	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)