

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: P275621

Luminaire Tested: **14CZ2-20-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275621  
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: 14CZ2-20-S-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2163.0 lumens  
Efficiency: N/A  
Efficacy: 137.6 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

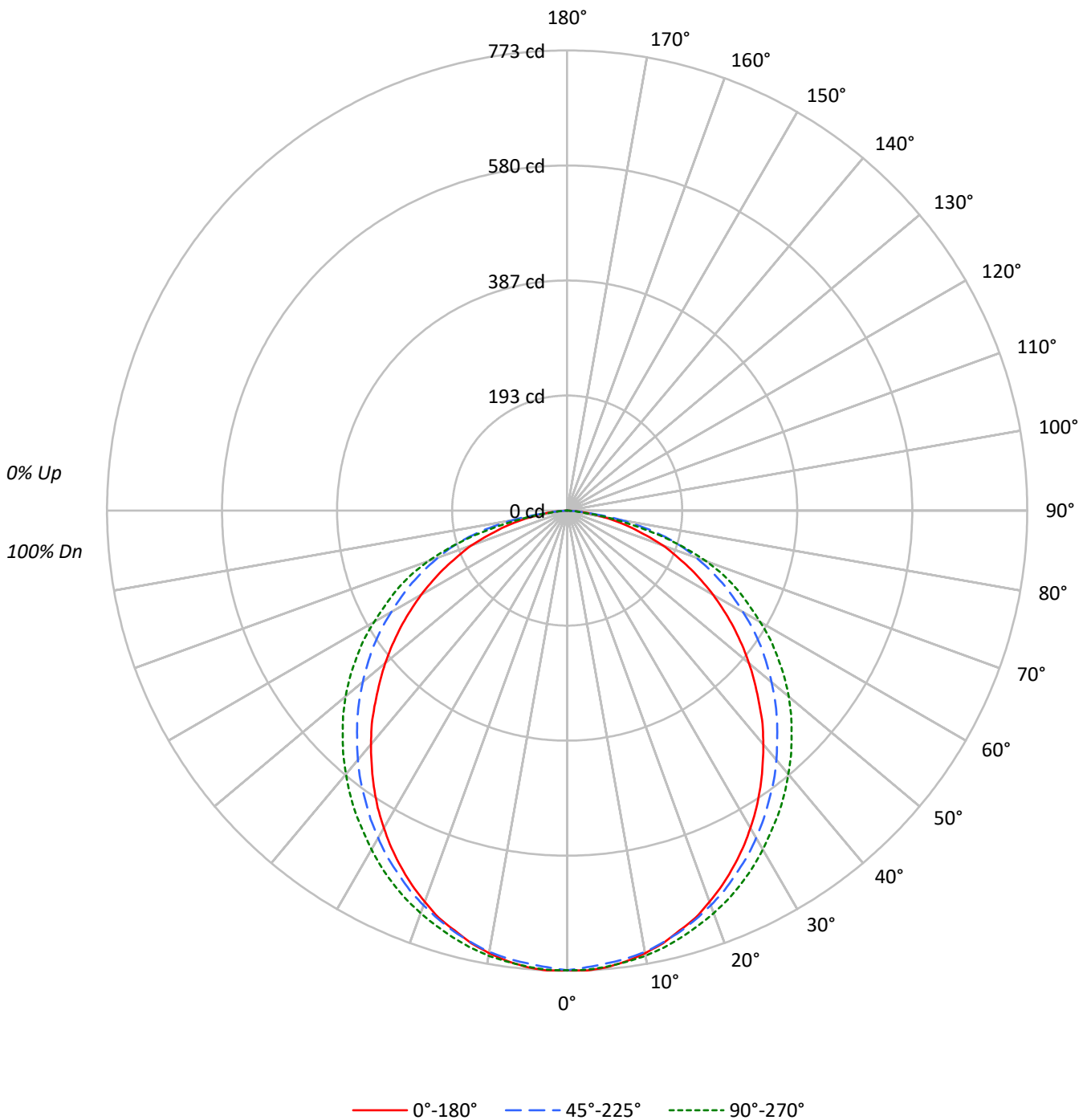
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2078	2078	2078
5°	2080	2063	2077
10°	2063	2057	2075
15°	2035	2041	2067
20°	2002	2021	2061
25°	1961	1996	2054
30°	1913	1973	2043
35°	1860	1945	2036
40°	1801	1921	2030
45°	1735	1898	2028
50°	1670	1877	2034
55°	1600	1862	2028
60°	1524	1835	2014
65°	1434	1830	2015
70°	1350	1814	1958
75°	1171	1773	1673
80°	947	1429	1114
85°	630	497	330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	3.4
10°-20°	207.5	9.6
20°-30°	311.2	14.4
30°-40°	371.3	17.2
40°-50°	383.8	17.7
50°-60°	350.4	16.2
60°-70°	275.8	12.7
70°-80°	160.5	7.4
80°-90°	29.6	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°	591.6	27.4
0°-40°	962.9	44.5
0°-60°	1697.1	78.5
0°-90°	2163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2163.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	770	768	764	770	769	73
15°	730	731	732	742	742	206
25°	661	664	672	688	692	304
35°	566	574	592	614	620	354
45°	456	471	499	527	533	352
55°	341	359	397	426	432	305
65°	225	249	287	310	316	224
75°	113	139	170	167	161	120
85°	20	29	16	13	11	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	772.2	772.2	772.2	772.2	772.2
2.5°	773.2	771.1	767.9	773.2	772.2
5°	770.0	767.9	763.6	770.0	768.9
7.5°	763.6	761.4	759.3	765.7	764.6
10°	755.0	753.9	752.9	760.4	759.3
12.5°	744.3	744.3	743.2	751.8	751.8
15°	730.3	731.4	732.5	742.1	742.1
17.5°	717.5	716.4	719.6	730.3	731.4
20°	699.2	701.4	705.7	718.5	719.6
22.5°	681.0	683.1	690.6	703.5	706.7
25°	660.6	663.8	672.4	688.5	691.7
27.5°	639.2	643.5	655.3	672.4	675.6
30°	615.6	622.0	634.9	654.2	657.4
32.5°	592.0	598.4	614.5	633.8	638.1
35°	566.2	573.8	592.0	614.5	619.9
37.5°	539.4	549.1	570.5	593.1	599.5
40°	512.6	523.3	546.9	570.5	578.0
42.5°	485.8	496.5	522.3	549.1	556.6
45°	455.8	470.8	498.7	526.6	533.0
47.5°	426.8	442.9	474.0	501.9	510.5
50°	398.9	415.0	448.3	477.2	485.8
52.5°	370.0	387.1	422.5	452.6	460.1
55°	341.0	359.3	396.8	425.8	432.2
57.5°	312.1	331.4	370.0	397.9	405.4
60°	283.1	303.5	341.0	368.9	374.3
62.5°	254.2	275.6	314.2	338.9	344.3
65°	225.2	248.8	287.4	309.9	316.4
67.5°	197.3	220.9	258.5	279.9	285.3
70°	171.6	193.0	230.6	246.7	248.8
72.5°	139.4	166.2	202.7	211.3	205.9
75°	112.6	139.4	170.5	167.3	160.9
77.5°	85.8	112.6	133.0	122.3	113.7
80°	61.1	87.9	92.2	76.1	71.9
82.5°	39.7	61.1	51.5	39.7	32.2
85°	20.4	29.0	16.1	12.9	10.7
87.5°	6.4	4.3	2.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)