

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: P275622

Luminaire Tested: **14CZ2-20-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275622  
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-5500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2184.0 lumens  
Efficiency: N/A  
Efficacy: 138.1 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

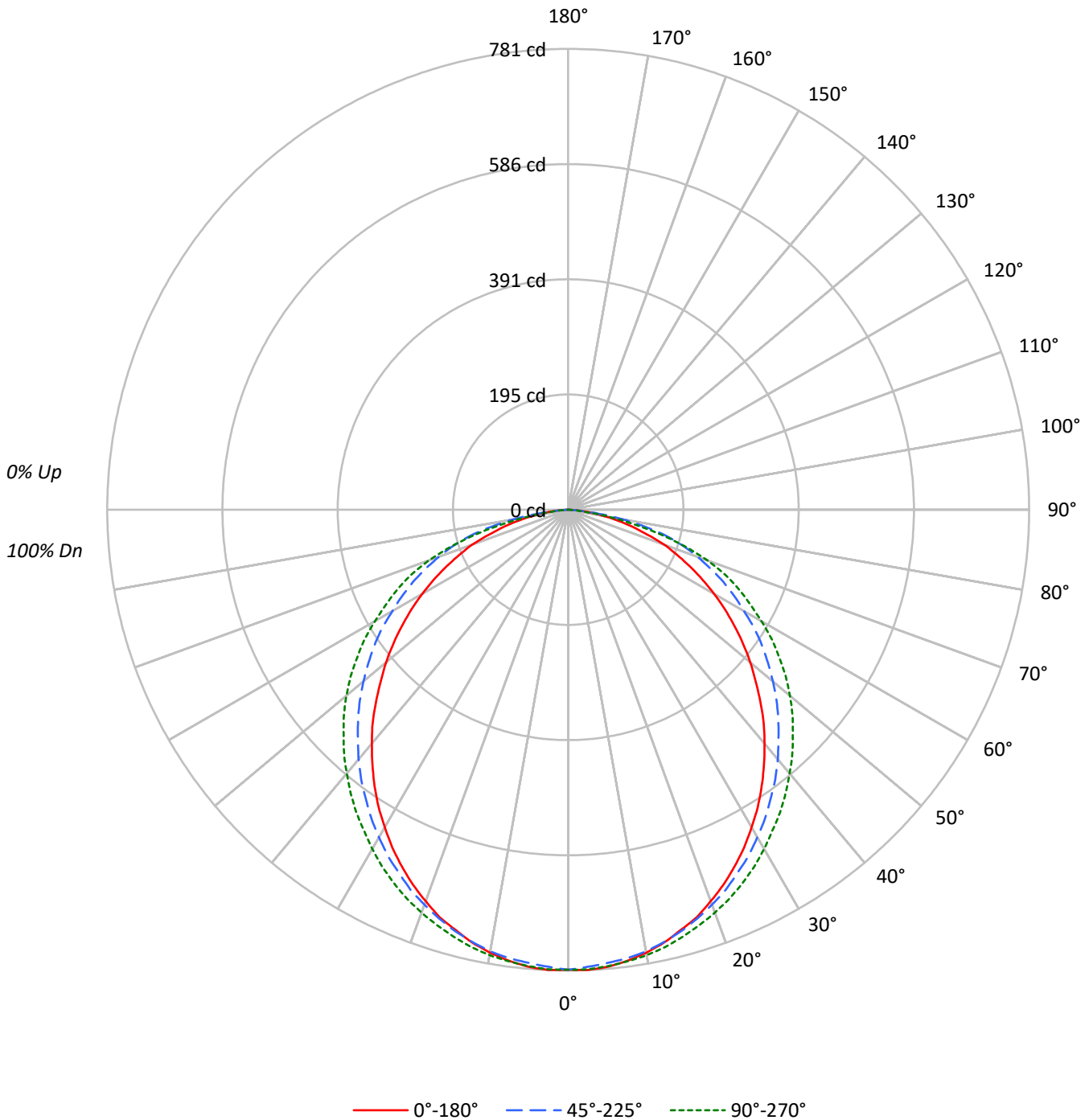
Input Watts (W): 15.81  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2098	2098	2098
5°	2100	2083	2097
10°	2083	2077	2095
15°	2054	2060	2087
20°	2022	2040	2081
25°	1980	2016	2074
30°	1931	1992	2063
35°	1878	1963	2056
40°	1818	1940	2050
45°	1751	1916	2048
50°	1686	1895	2053
55°	1615	1880	2047
60°	1539	1853	2034
65°	1448	1848	2034
70°	1364	1832	1976
75°	1182	1790	1688
80°	956	1443	1125
85°	636	500	333



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	3.4
10°-20°	209.5	9.6
20°-30°	314.2	14.4
30°-40°	374.9	17.2
40°-50°	387.5	17.7
50°-60°	353.8	16.2
60°-70°	278.4	12.7
70°-80°	162.1	7.4
80°-90°	29.9	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°	597.4	27.4
0°-40°	972.2	44.5
0°-60°	1713.6	78.5
0°-90°	2184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	775	771	778	776	74
15°	737	738	740	749	749	208
25°	667	670	679	695	698	307
35°	572	579	598	620	626	357
45°	460	475	504	532	538	355
55°	344	363	401	430	436	308
65°	227	251	290	313	319	226
75°	114	141	172	169	162	121
85°	21	29	16	13	11	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	779.7	779.7	779.7	779.7	779.7
2.5°	780.7	778.6	775.3	780.7	779.7
5°	777.5	775.3	771.0	777.5	776.4
7.5°	771.0	768.8	766.7	773.2	772.1
10°	762.3	761.2	760.2	767.7	766.7
12.5°	751.5	751.5	750.4	759.1	759.1
15°	737.4	738.5	739.6	749.3	749.3
17.5°	724.4	723.3	726.6	737.4	738.5
20°	706.0	708.2	712.5	725.5	726.6
22.5°	687.6	689.8	697.4	710.3	713.6
25°	667.0	670.3	678.9	695.2	698.4
27.5°	645.4	649.7	661.6	678.9	682.2
30°	621.6	628.1	641.0	660.5	663.8
32.5°	597.7	604.2	620.5	640.0	644.3
35°	571.7	579.3	597.7	620.5	625.9
37.5°	544.7	554.4	576.1	598.8	605.3
40°	517.6	528.4	552.3	576.1	583.7
42.5°	490.5	501.4	527.3	554.4	562.0
45°	460.2	475.4	503.5	531.7	538.2
47.5°	431.0	447.2	478.6	506.8	515.4
50°	402.8	419.1	452.6	481.9	490.5
52.5°	373.6	390.9	426.6	457.0	464.5
55°	344.3	362.8	400.7	429.9	436.4
57.5°	315.1	334.6	373.6	401.7	409.3
60°	285.9	306.4	344.3	372.5	377.9
62.5°	256.6	278.3	317.3	342.2	347.6
65°	227.4	251.2	290.2	312.9	319.4
67.5°	199.2	223.1	261.0	282.6	288.0
70°	173.3	194.9	232.8	249.1	251.2
72.5°	140.8	167.8	204.7	213.3	207.9
75°	113.7	140.8	172.2	168.9	162.4
77.5°	86.6	113.7	134.3	123.4	114.8
80°	61.7	88.8	93.1	76.9	72.6
82.5°	40.1	61.7	52.0	40.1	32.5
85°	20.6	29.2	16.2	13.0	10.8
87.5°	6.5	4.3	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)