

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: P275618

Luminaire Tested: **14CZ2-20-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275618  
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-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2052.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

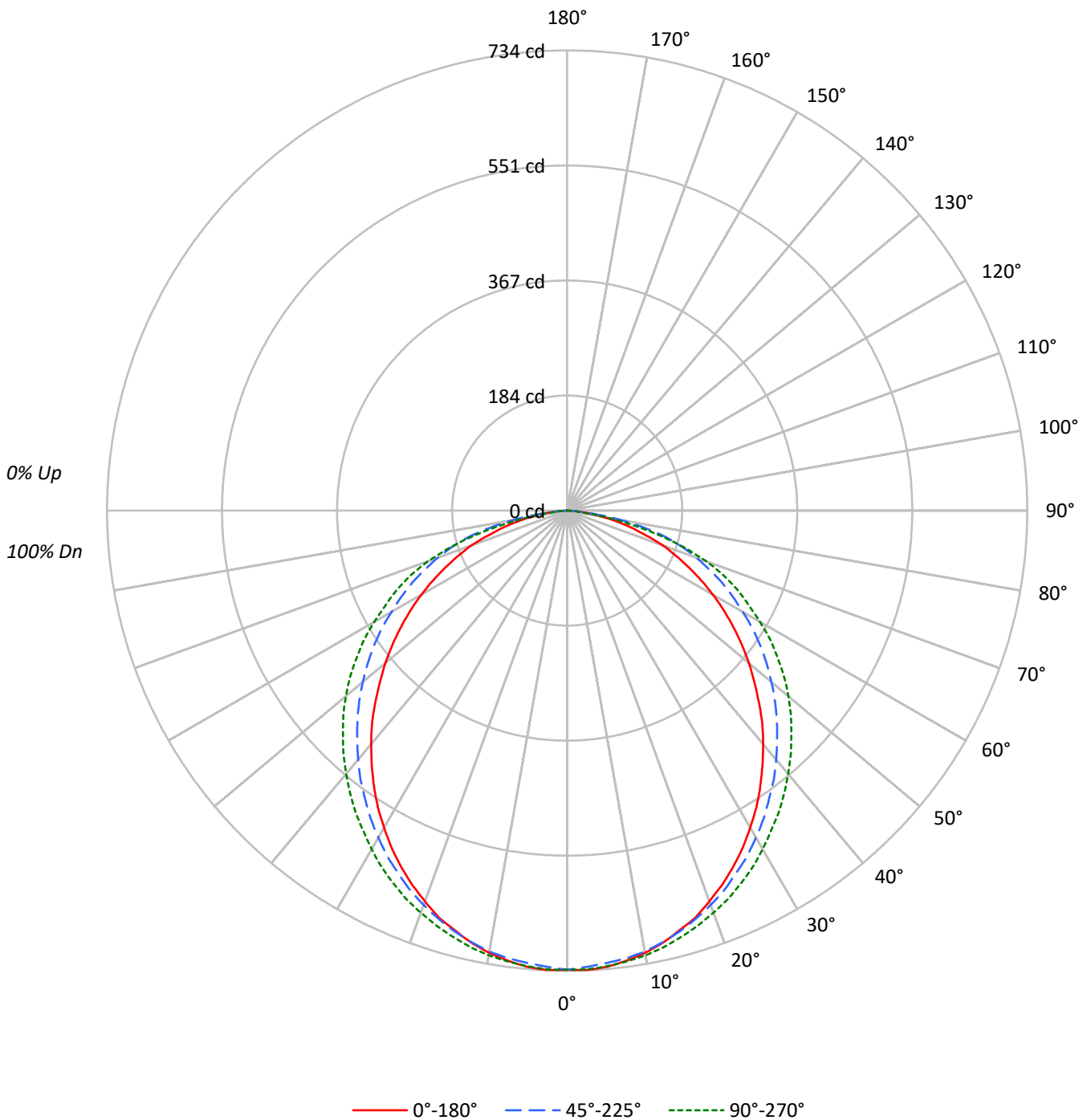
Input Watts (W): 15.438  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1971	1971	1971
5°	1973	1957	1971
10°	1957	1952	1968
15°	1930	1936	1961
20°	1899	1917	1955
25°	1861	1894	1948
30°	1815	1872	1938
35°	1765	1845	1932
40°	1708	1823	1926
45°	1646	1800	1924
50°	1585	1780	1930
55°	1518	1766	1924
60°	1446	1741	1911
65°	1361	1736	1911
70°	1281	1721	1857
75°	1110	1682	1587
80°	899	1356	1057
85°	596	472	315



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	3.4
10°-20°	196.8	9.6
20°-30°	295.3	14.4
30°-40°	352.2	17.2
40°-50°	364.1	17.7
50°-60°	332.4	16.2
60°-70°	261.6	12.7
70°-80°	152.3	7.4
80°-90°	28.1	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°	561.3	27.4
0°-40°	913.5	44.5
0°-60°	1610.0	78.5
0°-90°	2052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2052.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	730	728	724	730	730	69
15°	693	694	695	704	704	196
25°	627	630	638	653	656	289
35°	537	544	562	583	588	336
45°	432	447	473	500	506	334
55°	324	341	376	404	410	289
65°	214	236	273	294	300	212
75°	107	132	162	159	153	114
85°	19	28	15	12	10	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	732.5	732.5	732.5	732.5	732.5
2.5°	733.5	731.5	728.5	733.5	732.5
5°	730.5	728.5	724.4	730.5	729.5
7.5°	724.4	722.4	720.3	726.4	725.4
10°	716.3	715.2	714.2	721.3	720.3
12.5°	706.1	706.1	705.1	713.2	713.2
15°	692.9	693.9	694.9	704.0	704.0
17.5°	680.6	679.6	682.7	692.9	693.9
20°	663.3	665.4	669.5	681.7	682.7
22.5°	646.1	648.1	655.2	667.4	670.5
25°	626.7	629.8	637.9	653.2	656.2
27.5°	606.4	610.4	621.6	637.9	641.0
30°	584.0	590.1	602.3	620.6	623.7
32.5°	561.6	567.7	583.0	601.3	605.4
35°	537.2	544.3	561.6	583.0	588.1
37.5°	511.8	520.9	541.3	562.6	568.7
40°	486.3	496.5	518.9	541.3	548.4
42.5°	460.9	471.1	495.5	520.9	528.0
45°	432.4	446.6	473.1	499.5	505.6
47.5°	404.9	420.2	449.7	476.1	484.3
50°	378.5	393.7	425.3	452.7	460.9
52.5°	351.0	367.3	400.9	429.3	436.5
55°	323.5	340.8	376.4	403.9	410.0
57.5°	296.1	314.4	351.0	377.5	384.6
60°	268.6	287.9	323.5	350.0	355.1
62.5°	241.1	261.5	298.1	321.5	326.6
65°	213.7	236.0	272.7	294.0	300.1
67.5°	187.2	209.6	245.2	265.5	270.6
70°	162.8	183.1	218.7	234.0	236.0
72.5°	132.3	157.7	192.3	200.4	195.3
75°	106.8	132.3	161.8	158.7	152.6
77.5°	81.4	106.8	126.2	116.0	107.8
80°	58.0	83.4	87.5	72.2	68.2
82.5°	37.6	58.0	48.8	37.6	30.5
85°	19.3	27.5	15.3	12.2	10.2
87.5°	6.1	4.1	2.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)