

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: P275458

Luminaire Tested: **14CZ2-25-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275458  
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-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2289.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 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

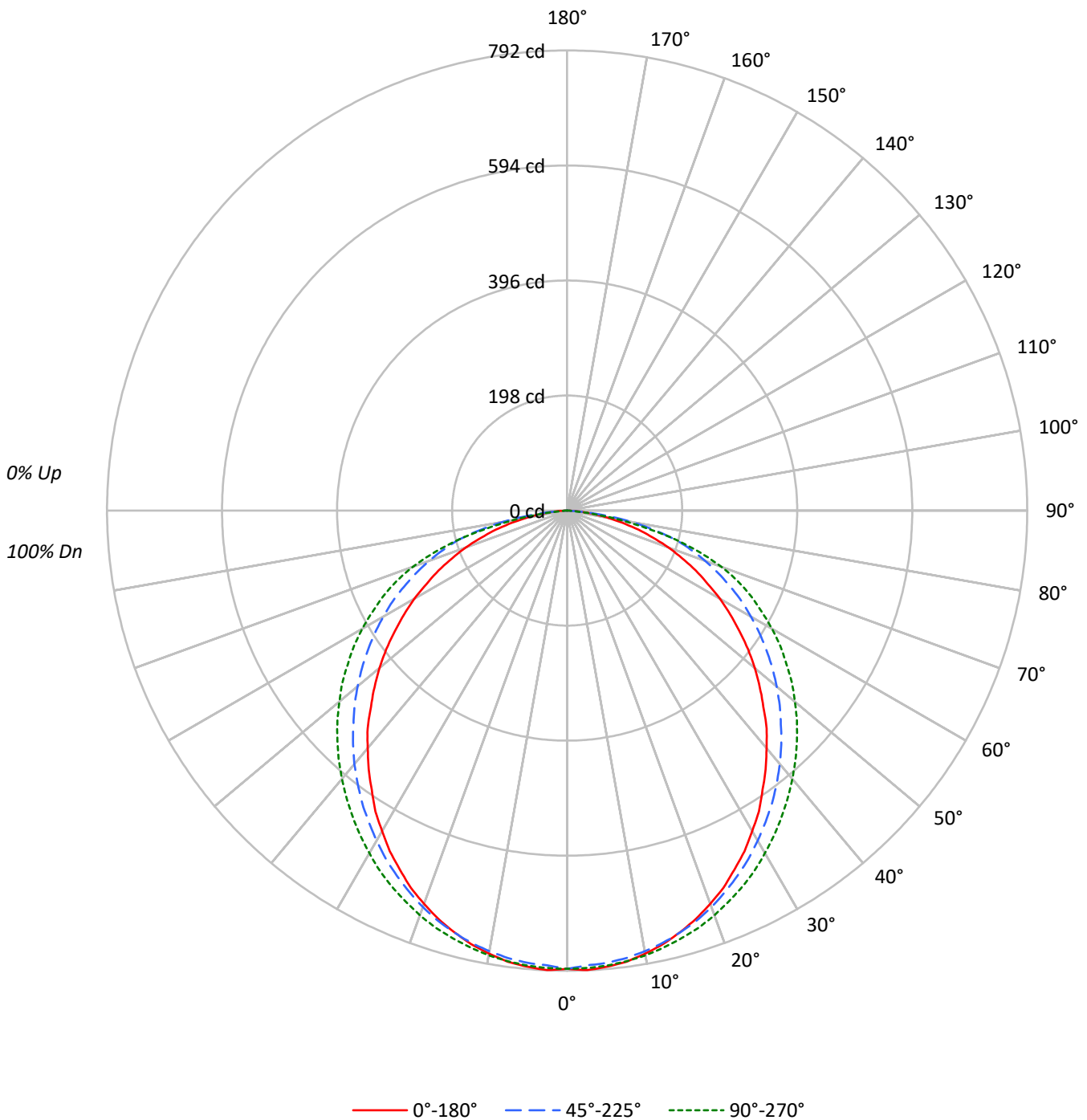
Input Watts (W): 18.135  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2122	2122	2122
5°	2129	2111	2123
10°	2116	2105	2124
15°	2093	2094	2123
20°	2062	2080	2122
25°	2023	2059	2120
30°	1979	2038	2116
35°	1926	2020	2114
40°	1875	2001	2118
45°	1818	1979	2129
50°	1765	1970	2143
55°	1698	1963	2162
60°	1637	1967	2192
65°	1554	1973	2226
70°	1458	1987	2225
75°	1321	2006	2011
80°	1083	1733	1432
85°	803	818	330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	3.3
10°-20°	213.2	9.3
20°-30°	321.1	14.0
30°-40°	385.3	16.8
40°-50°	401.6	17.5
50°-60°	371.8	16.2
60°-70°	300.4	13.1
70°-80°	183.2	8.0
80°-90°	37.8	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°	608.9	26.6
0°-40°	994.2	43.4
0°-60°	1767.6	77.2
0°-90°	2289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2289.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	788	786	781	787	786	75
15°	751	752	752	762	762	212
25°	681	686	694	711	714	314
35°	586	596	615	638	644	367
45°	478	492	520	549	559	369
55°	362	381	418	451	461	324
65°	244	268	310	341	350	241
75°	127	155	193	196	193	133
85°	26	39	26	15	11	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	788.6	788.6	788.6	788.6	788.6
2.5°	791.6	789.1	783.5	789.1	788.1
5°	788.1	786.0	781.4	787.0	786.0
7.5°	783.0	780.9	776.8	783.5	782.4
10°	774.3	773.3	770.2	777.8	777.3
12.5°	764.1	763.6	762.0	770.7	770.2
15°	751.3	751.8	751.8	762.0	762.0
17.5°	737.0	738.0	740.1	751.3	752.8
20°	720.2	722.2	726.3	739.1	741.1
22.5°	702.8	704.4	710.5	725.8	727.8
25°	681.4	685.5	693.6	711.0	714.0
27.5°	661.0	664.5	675.8	693.6	698.7
30°	637.0	642.6	655.9	675.3	680.9
32.5°	614.0	620.1	635.4	657.9	663.0
35°	586.4	595.6	615.0	637.5	643.6
37.5°	561.4	570.1	592.1	616.6	623.7
40°	533.9	544.6	569.6	595.6	602.8
42.5°	508.4	518.6	545.6	572.2	581.9
45°	477.7	492.0	520.1	549.2	559.4
47.5°	449.7	464.0	496.1	527.2	536.4
50°	421.6	436.9	470.6	502.7	511.9
52.5°	392.5	408.8	445.1	477.2	487.9
55°	361.9	380.8	418.5	451.2	460.9
57.5°	332.8	352.2	392.5	425.7	435.4
60°	304.2	324.1	365.4	397.1	407.3
62.5°	272.6	296.0	338.9	370.0	377.7
65°	244.0	268.0	309.8	340.9	349.6
67.5°	213.9	239.9	281.7	310.3	318.5
70°	185.3	212.3	252.6	279.2	282.8
72.5°	154.7	182.2	223.0	239.9	239.9
75°	127.1	155.2	192.9	196.0	193.4
77.5°	97.0	128.1	152.6	146.5	140.4
80°	69.9	100.5	111.8	100.5	92.4
82.5°	47.0	73.0	67.4	53.6	47.5
85°	26.0	38.8	26.5	14.8	10.7
87.5°	9.7	8.7	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)