

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: P275680

Luminaire Tested: **14CZ2-25-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275680  
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: 14CZ2-25-S-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1998.0 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

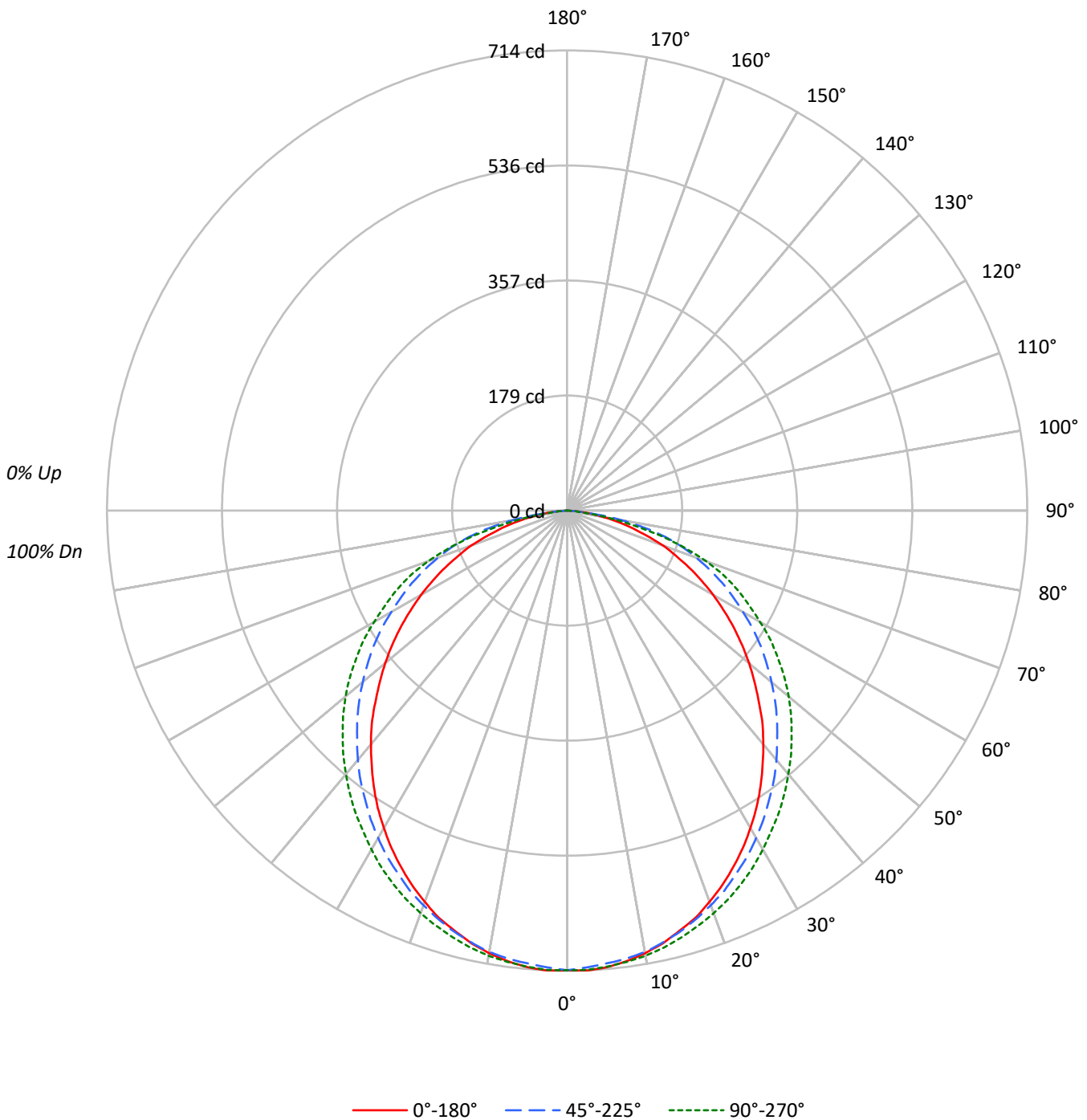
Input Watts (W): 18.042  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1919	1919	1919
5°	1921	1905	1919
10°	1906	1900	1917
15°	1879	1885	1910
20°	1850	1867	1903
25°	1812	1844	1897
30°	1767	1822	1887
35°	1718	1796	1881
40°	1663	1775	1875
45°	1602	1753	1874
50°	1543	1734	1879
55°	1478	1719	1873
60°	1407	1695	1861
65°	1324	1691	1861
70°	1247	1676	1808
75°	1081	1638	1545
80°	876	1320	1029
85°	580	460	306



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	3.4
10°-20°	191.7	9.6
20°-30°	287.5	14.4
30°-40°	342.9	17.2
40°-50°	354.5	17.7
50°-60°	323.7	16.2
60°-70°	254.7	12.7
70°-80°	148.3	7.4
80°-90°	27.3	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°	546.5	27.4
0°-40°	889.4	44.5
0°-60°	1567.7	78.5
0°-90°	1998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1998.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	711	709	705	711	710	67
15°	675	676	677	686	686	190
25°	610	613	621	636	639	281
35°	523	530	547	568	573	327
45°	421	435	461	486	492	325
55°	315	332	366	393	399	282
65°	208	230	266	286	292	207
75°	104	129	158	154	149	111
85°	19	27	15	12	10	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	713.3	713.3	713.3	713.3	713.3
2.5°	714.2	712.3	709.3	714.2	713.3
5°	711.3	709.3	705.3	711.3	710.3
7.5°	705.3	703.3	701.4	707.3	706.3
10°	697.4	696.4	695.4	702.4	701.4
12.5°	687.5	687.5	686.5	694.4	694.4
15°	674.6	675.6	676.6	685.5	685.5
17.5°	662.7	661.7	664.7	674.6	675.6
20°	645.9	647.9	651.8	663.7	664.7
22.5°	629.0	631.0	638.0	649.9	652.8
25°	610.2	613.2	621.1	636.0	639.0
27.5°	590.4	594.4	605.3	621.1	624.1
30°	568.6	574.6	586.5	604.3	607.3
32.5°	546.8	552.8	567.6	585.5	589.4
35°	523.1	530.0	546.8	567.6	572.6
37.5°	498.3	507.2	527.0	547.8	553.8
40°	473.5	483.4	505.2	527.0	533.9
42.5°	448.8	458.7	482.4	507.2	514.1
45°	421.0	434.9	460.6	486.4	492.3
47.5°	394.3	409.1	437.9	463.6	471.5
50°	368.5	383.4	414.1	440.8	448.8
52.5°	341.8	357.6	390.3	418.0	425.0
55°	315.0	331.9	366.5	393.3	399.2
57.5°	288.3	306.1	341.8	367.5	374.5
60°	261.5	280.3	315.0	340.8	345.7
62.5°	234.8	254.6	290.3	313.0	318.0
65°	208.0	229.8	265.5	286.3	292.2
67.5°	182.3	204.1	238.7	258.6	263.5
70°	158.5	178.3	213.0	227.8	229.8
72.5°	128.8	153.5	187.2	195.2	190.2
75°	104.0	128.8	157.5	154.5	148.6
77.5°	79.3	104.0	122.8	112.9	105.0
80°	56.5	81.2	85.2	70.3	66.4
82.5°	36.7	56.5	47.6	36.7	29.7
85°	18.8	26.7	14.9	11.9	9.9
87.5°	5.9	4.0	2.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)