

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: P258667

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-25-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2335.0 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

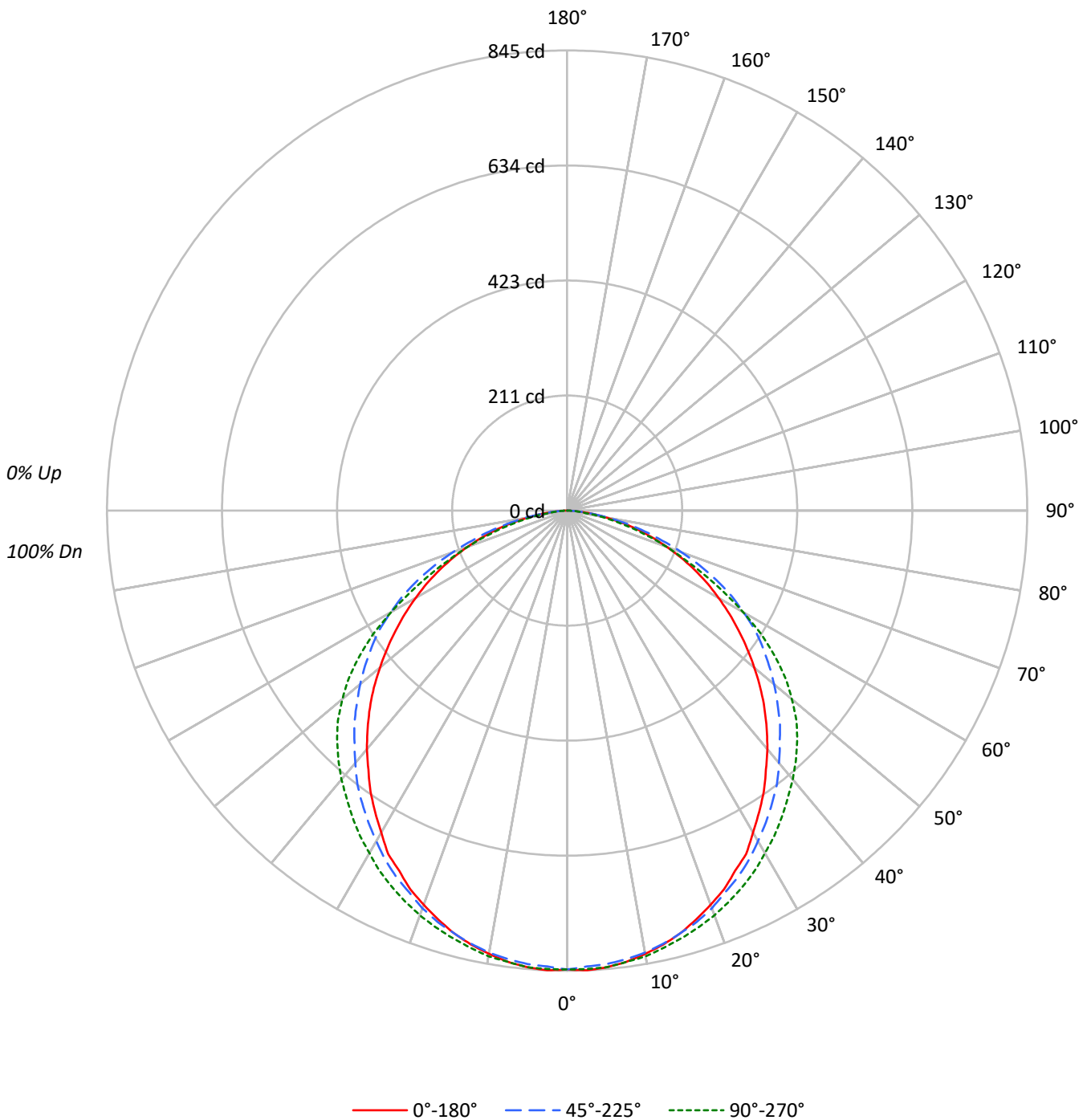
Input Watts (W): 19.065  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2267	2267	2267
5°	2273	2257	2273
10°	2258	2252	2271
15°	2238	2238	2264
20°	2205	2225	2265
25°	2167	2205	2263
30°	2121	2178	2257
35°	2069	2156	2258
40°	2010	2127	2264
45°	1950	2103	2273
50°	1879	2077	2255
55°	1804	2058	2182
60°	1729	2013	2007
65°	1649	1928	1759
70°	1530	1757	1522
75°	1388	1531	1257
80°	1106	1213	928
85°	781	676	534



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	3.4
10°-20°	227.8	9.8
20°-30°	343.4	14.7
30°-40°	411.6	17.6
40°-50°	427.2	18.3
50°-60°	385.3	16.5
60°-70°	281.1	12.0
70°-80°	147.5	6.3
80°-90°	31.5	1.3
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°	650.9	27.9
0°-40°	1062.5	45.5
0°-60°	1875.0	80.3
0°-90°	2335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2335.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	842	839	836	842	842	80
15°	804	804	804	813	813	226
25°	730	733	742	759	762	337
35°	630	637	656	680	687	393
45°	512	523	552	586	597	395
55°	384	398	439	467	465	344
65°	259	274	303	291	276	256
75°	134	152	147	128	121	140
85°	25	31	22	18	17	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	842.6	842.6	842.6	842.6	842.6
2.5°	844.9	842.6	838.0	842.6	842.6
5°	841.5	839.2	835.7	841.5	841.5
7.5°	835.7	833.4	831.1	836.9	835.7
10°	826.5	825.4	824.2	831.1	831.1
12.5°	816.2	816.2	815.0	823.1	821.9
15°	803.5	803.5	803.5	812.7	812.7
17.5°	787.4	789.7	792.0	802.3	802.3
20°	770.1	772.4	777.0	789.7	790.8
22.5°	752.8	754.0	758.6	773.6	777.0
25°	729.8	733.3	742.5	758.6	762.1
27.5°	711.4	712.6	722.9	741.3	745.9
30°	682.6	690.7	701.0	721.8	726.4
32.5°	656.2	663.1	679.2	701.0	708.0
35°	629.7	636.6	656.2	680.3	687.2
37.5°	599.7	610.1	633.1	657.3	665.4
40°	572.1	581.3	605.5	635.4	644.6
42.5°	542.2	551.4	577.9	611.3	621.6
45°	512.3	522.6	552.5	585.9	597.4
47.5°	481.2	492.7	523.8	560.6	571.0
50°	448.9	461.6	496.1	534.1	538.7
52.5°	416.7	430.5	467.4	500.7	505.4
55°	384.5	398.3	438.6	467.4	465.1
57.5°	353.4	368.4	409.8	424.8	422.5
60°	321.2	337.3	374.1	381.0	373.0
62.5°	291.2	306.2	340.7	335.0	324.6
65°	259.0	274.0	302.8	291.2	276.3
67.5°	226.8	245.2	263.6	244.0	232.5
70°	194.5	215.3	223.3	203.8	193.4
72.5°	163.5	185.3	183.0	163.5	156.6
75°	133.5	152.0	147.3	127.8	120.9
77.5°	101.3	122.0	111.7	95.5	89.8
80°	71.4	89.8	78.3	64.5	59.9
82.5°	47.2	59.9	48.3	38.0	34.5
85°	25.3	31.1	21.9	18.4	17.3
87.5°	10.4	9.2	8.1	8.1	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)