

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: P275465

Luminaire Tested: **14CZ2-25-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275465  
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-6500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2535.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 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

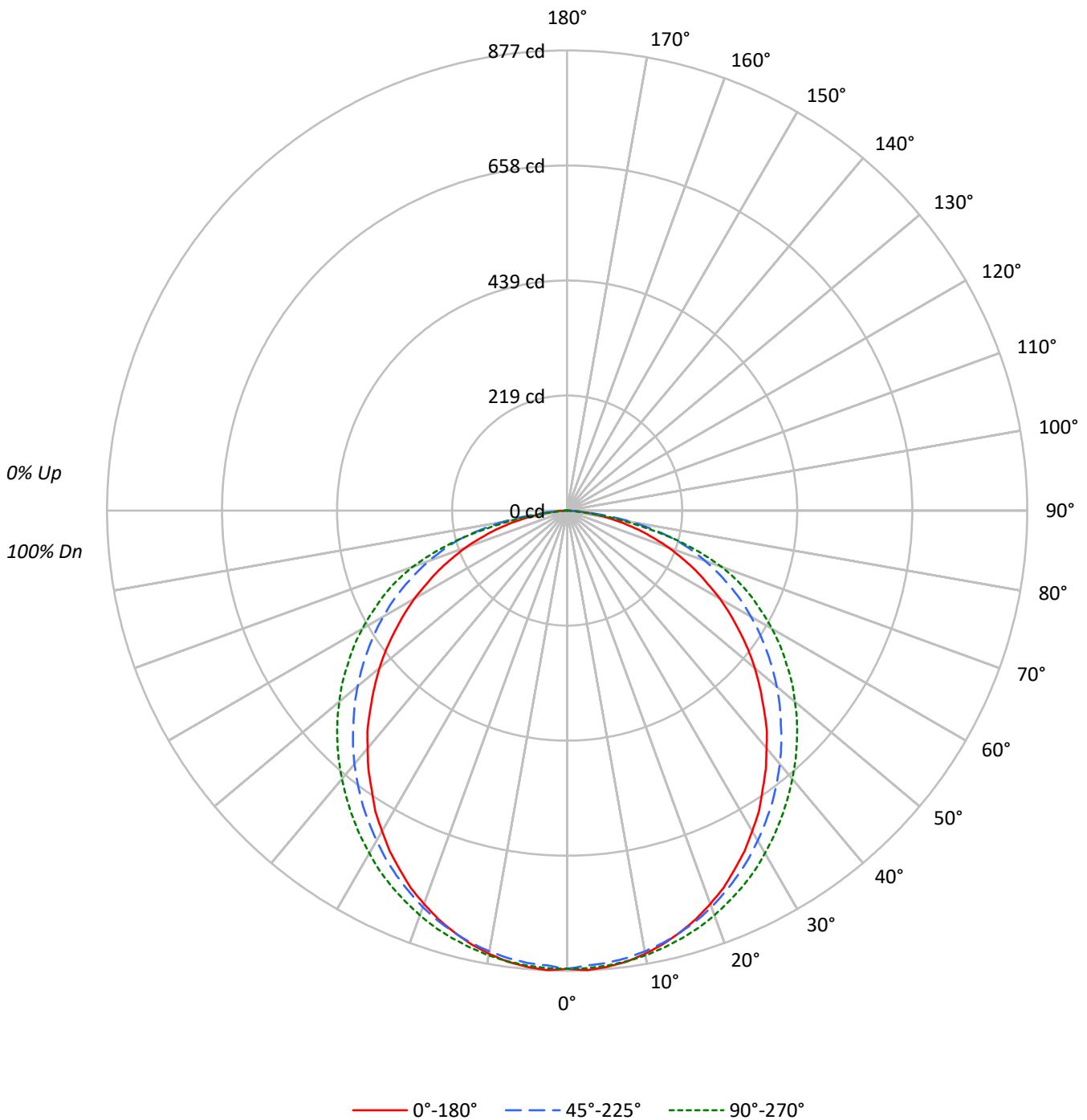
Input Watts (W): 19.065  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	2350	2350	2350
5°	2358	2338	2351
10°	2343	2331	2352
15°	2318	2320	2351
20°	2284	2304	2350
25°	2241	2281	2348
30°	2192	2257	2343
35°	2134	2237	2342
40°	2077	2216	2345
45°	2014	2192	2358
50°	1955	2182	2373
55°	1880	2175	2395
60°	1813	2178	2428
65°	1720	2185	2465
70°	1614	2201	2464
75°	1463	2222	2227
80°	1199	1918	1585
85°	889	908	367



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.3
10°-20°	236.1	9.3
20°-30°	355.6	14.0
30°-40°	426.7	16.8
40°-50°	444.8	17.5
50°-60°	411.8	16.2
60°-70°	332.7	13.1
70°-80°	202.8	8.0
80°-90°	41.9	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°	674.3	26.6
0°-40°	1101.0	43.4
0°-60°	1957.6	77.2
0°-90°	2535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	873	870	865	872	870	83
15°	832	833	833	844	844	235
25°	755	759	768	787	791	348
35°	650	660	681	706	713	407
45°	529	545	576	608	620	409
55°	401	422	464	500	510	359
65°	270	297	343	378	387	267
75°	141	172	214	217	214	148
85°	29	43	29	16	12	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	873.3	873.3	873.3	873.3	873.3
2.5°	876.7	873.9	867.7	873.9	872.8
5°	872.8	870.5	865.4	871.6	870.5
7.5°	867.1	864.8	860.3	867.7	866.5
10°	857.5	856.4	853.0	861.4	860.9
12.5°	846.2	845.6	843.9	853.5	853.0
15°	832.1	832.6	832.6	843.9	843.9
17.5°	816.2	817.4	819.6	832.1	833.7
20°	797.6	799.8	804.4	818.5	820.7
22.5°	778.4	780.0	786.8	803.8	806.1
25°	754.6	759.1	768.2	787.4	790.8
27.5°	732.0	736.0	748.4	768.2	773.8
30°	705.4	711.7	726.3	747.8	754.0
32.5°	680.0	686.8	703.7	728.6	734.3
35°	649.5	659.7	681.1	706.0	712.8
37.5°	621.8	631.4	655.7	682.8	690.7
40°	591.3	603.1	630.8	659.7	667.6
42.5°	563.0	574.3	604.3	633.6	644.4
45°	529.1	544.9	576.0	608.2	619.5
47.5°	498.0	513.8	549.4	583.9	594.1
50°	466.9	483.9	521.2	556.8	566.9
52.5°	434.7	452.8	492.9	528.5	540.4
55°	400.8	421.7	463.5	499.7	510.4
57.5°	368.5	390.0	434.7	471.4	482.2
60°	336.9	358.9	404.7	439.8	451.1
62.5°	301.8	327.8	375.3	409.8	418.3
65°	270.2	296.8	343.1	377.6	387.2
67.5°	236.8	265.7	312.0	343.7	352.7
70°	205.2	235.1	279.8	309.2	313.2
72.5°	171.3	201.8	247.0	265.7	265.7
75°	140.7	171.8	213.7	217.1	214.2
77.5°	107.4	141.9	169.0	162.2	155.4
80°	77.4	111.4	123.8	111.4	102.3
82.5°	52.0	80.8	74.6	59.4	52.6
85°	28.8	43.0	29.4	16.4	11.9
87.5°	10.7	9.6	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)