

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: P275463

Luminaire Tested: **14CZ2-25-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275463  
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-5500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2522.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 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

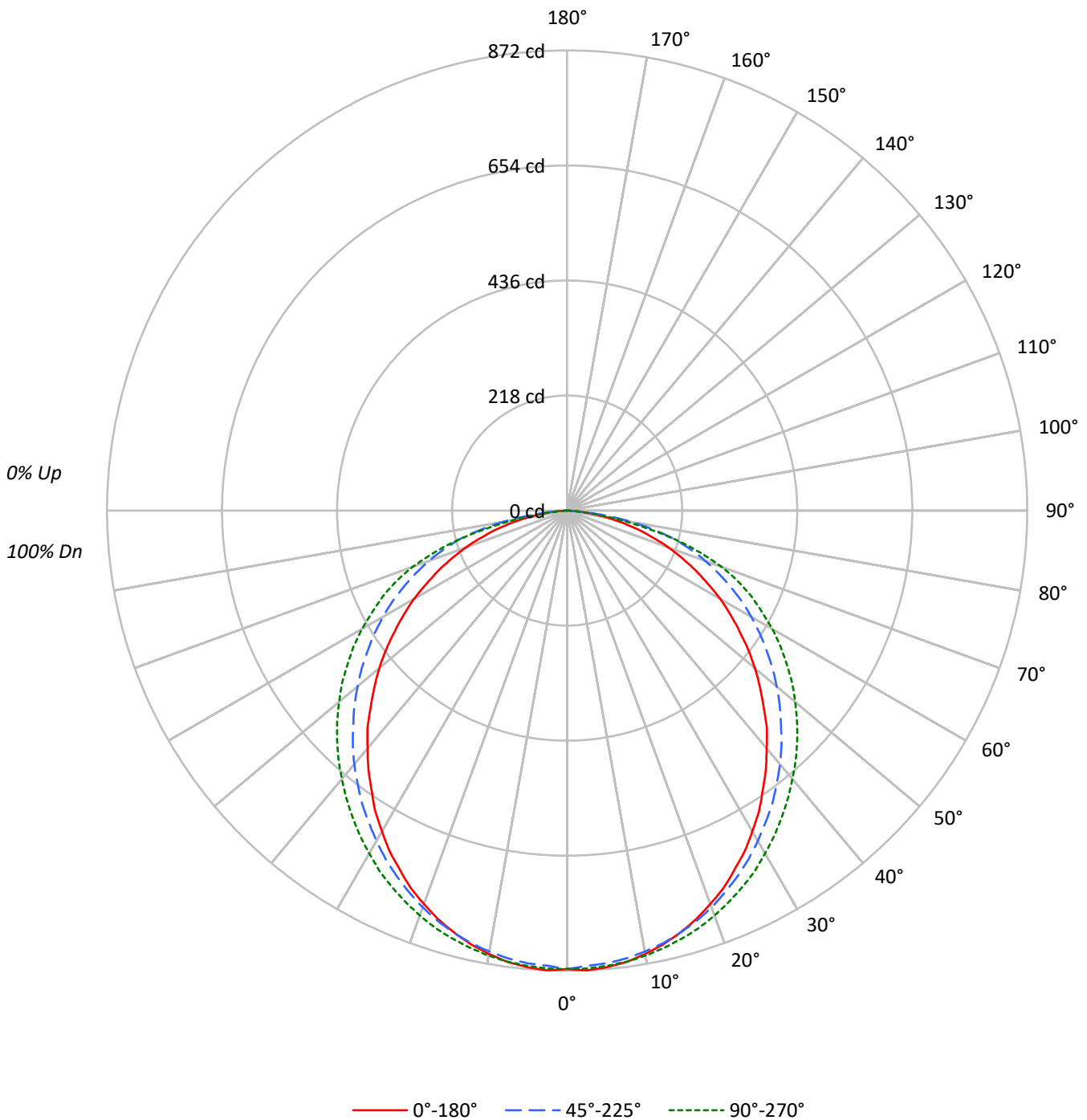
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2338	2338	2338
5°	2346	2326	2339
10°	2331	2319	2340
15°	2306	2308	2339
20°	2272	2292	2338
25°	2229	2269	2336
30°	2181	2245	2331
35°	2122	2226	2329
40°	2066	2205	2333
45°	2003	2181	2345
50°	1945	2171	2361
55°	1871	2163	2382
60°	1804	2167	2415
65°	1712	2173	2453
70°	1606	2190	2451
75°	1456	2210	2216
80°	1193	1909	1578
85°	886	902	364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	3.3
10°-20°	234.9	9.3
20°-30°	353.8	14.0
30°-40°	424.5	16.8
40°-50°	442.5	17.5
50°-60°	409.6	16.2
60°-70°	331.0	13.1
70°-80°	201.8	8.0
80°-90°	41.7	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°	670.9	26.6
0°-40°	1095.4	43.4
0°-60°	1947.5	77.2
0°-90°	2522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	868	866	861	867	866	82
15°	828	828	828	840	840	233
25°	751	755	764	783	787	346
35°	646	656	678	702	709	405
45°	526	542	573	605	616	407
55°	399	420	461	497	508	357
65°	269	295	341	376	385	266
75°	140	171	213	216	213	147
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°	868.8	868.8	868.8	868.8	868.8
2.5°	872.2	869.4	863.2	869.4	868.3
5°	868.3	866.0	861.0	867.2	866.0
7.5°	862.7	860.4	855.9	863.2	862.1
10°	853.1	852.0	848.6	857.0	856.5
12.5°	841.8	841.3	839.6	849.2	848.6
15°	827.8	828.3	828.3	839.6	839.6
17.5°	812.0	813.2	815.4	827.8	829.5
20°	793.5	795.7	800.2	814.3	816.5
22.5°	774.4	776.0	782.8	799.7	801.9
25°	750.7	755.2	764.2	783.4	786.7
27.5°	728.2	732.2	744.6	764.2	769.9
30°	701.8	708.0	722.6	744.0	750.2
32.5°	676.5	683.3	700.1	724.9	730.5
35°	646.1	656.3	677.6	702.4	709.1
37.5°	618.6	628.1	652.3	679.3	687.2
40°	588.2	600.0	627.6	656.3	664.1
42.5°	560.1	571.4	601.2	630.4	641.1
45°	526.4	542.1	573.0	605.1	616.3
47.5°	495.4	511.2	546.6	580.9	591.0
50°	464.5	481.4	518.5	553.9	564.0
52.5°	432.5	450.4	490.4	525.8	537.6
55°	398.7	419.5	461.1	497.1	507.8
57.5°	366.7	388.0	432.5	469.0	479.7
60°	335.2	357.1	402.6	437.5	448.8
62.5°	300.3	326.2	373.4	407.7	416.1
65°	268.8	295.2	341.3	375.7	385.2
67.5°	235.6	264.3	310.4	341.9	350.9
70°	204.1	233.9	278.4	307.6	311.5
72.5°	170.4	200.8	245.7	264.3	264.3
75°	140.0	171.0	212.6	215.9	213.1
77.5°	106.8	141.2	168.1	161.4	154.6
80°	77.0	110.8	123.2	110.8	101.8
82.5°	51.7	80.4	74.2	59.0	52.3
85°	28.7	42.7	29.2	16.3	11.8
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)