

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: P275461

Luminaire Tested: **14CZ2-25-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275461  
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-4500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2464.0 lumens  
Efficiency: N/A  
Efficacy: 132.5 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

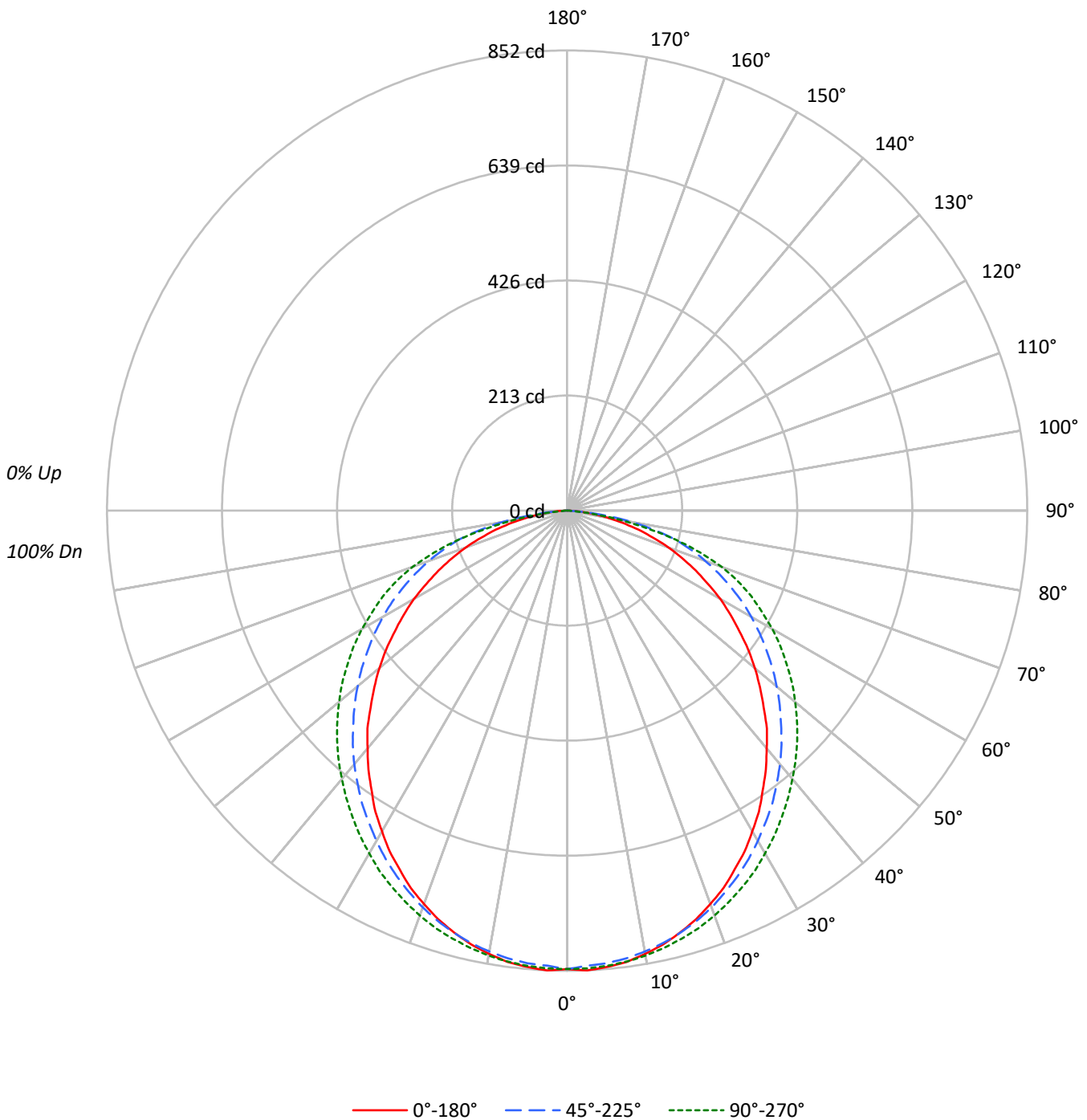
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2284	2284	2284
5°	2291	2272	2286
10°	2278	2266	2287
15°	2253	2255	2285
20°	2220	2239	2285
25°	2178	2217	2282
30°	2131	2194	2277
35°	2074	2175	2276
40°	2019	2154	2279
45°	1957	2131	2292
50°	1900	2121	2307
55°	1827	2114	2327
60°	1763	2117	2359
65°	1672	2124	2397
70°	1569	2140	2395
75°	1422	2159	2165
80°	1167	1864	1540
85°	865	883	355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	3.3
10°-20°	229.5	9.3
20°-30°	345.7	14.0
30°-40°	414.8	16.8
40°-50°	432.3	17.5
50°-60°	400.2	16.2
60°-70°	323.4	13.1
70°-80°	197.2	8.0
80°-90°	40.7	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°	655.4	26.6
0°-40°	1070.2	43.4
0°-60°	1902.8	77.2
0°-90°	2464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	848	846	841	847	846	81
15°	809	809	809	820	820	228
25°	734	738	747	765	769	338
35°	631	641	662	686	693	395
45°	514	530	560	591	602	397
55°	390	410	450	486	496	349
65°	263	288	334	367	376	260
75°	137	167	208	211	208	144
85°	28	42	29	16	12	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	848.9	848.9	848.9	848.9	848.9
2.5°	852.2	849.4	843.4	849.4	848.3
5°	848.3	846.1	841.2	847.2	846.1
7.5°	842.8	840.6	836.2	843.4	842.3
10°	833.5	832.4	829.1	837.3	836.8
12.5°	822.5	821.9	820.3	829.6	829.1
15°	808.7	809.3	809.3	820.3	820.3
17.5°	793.4	794.5	796.7	808.7	810.4
20°	775.2	777.4	781.8	795.6	797.8
22.5°	756.6	758.2	764.8	781.3	783.5
25°	733.5	737.9	746.7	765.3	768.6
27.5°	711.5	715.3	727.4	746.7	752.2
30°	685.7	691.7	706.0	726.9	732.9
32.5°	661.0	667.5	684.0	708.2	713.7
35°	631.3	641.2	662.1	686.2	692.8
37.5°	604.4	613.7	637.3	663.7	671.4
40°	574.7	586.2	613.2	641.2	648.9
42.5°	547.2	558.2	587.3	615.9	626.3
45°	514.3	529.6	559.9	591.2	602.2
47.5°	484.0	499.4	534.0	567.6	577.4
50°	453.8	470.3	506.6	541.2	551.1
52.5°	422.5	440.1	479.1	513.7	525.2
55°	389.5	409.9	450.5	485.7	496.1
57.5°	358.2	379.1	422.5	458.2	468.7
60°	327.5	348.9	393.4	427.4	438.4
62.5°	293.4	318.7	364.8	398.3	406.6
65°	262.6	288.4	333.5	367.0	376.4
67.5°	230.2	258.2	303.3	334.0	342.8
70°	199.4	228.6	272.0	300.5	304.4
72.5°	166.5	196.1	240.1	258.2	258.2
75°	136.8	167.0	207.7	211.0	208.2
77.5°	104.4	137.9	164.3	157.7	151.1
80°	75.3	108.2	120.3	108.2	99.4
82.5°	50.5	78.6	72.5	57.7	51.1
85°	28.0	41.8	28.6	15.9	11.5
87.5°	10.4	9.3	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)