

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: P275628

Luminaire Tested: **14CZ2-25-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275628  
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-L82765-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2447.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

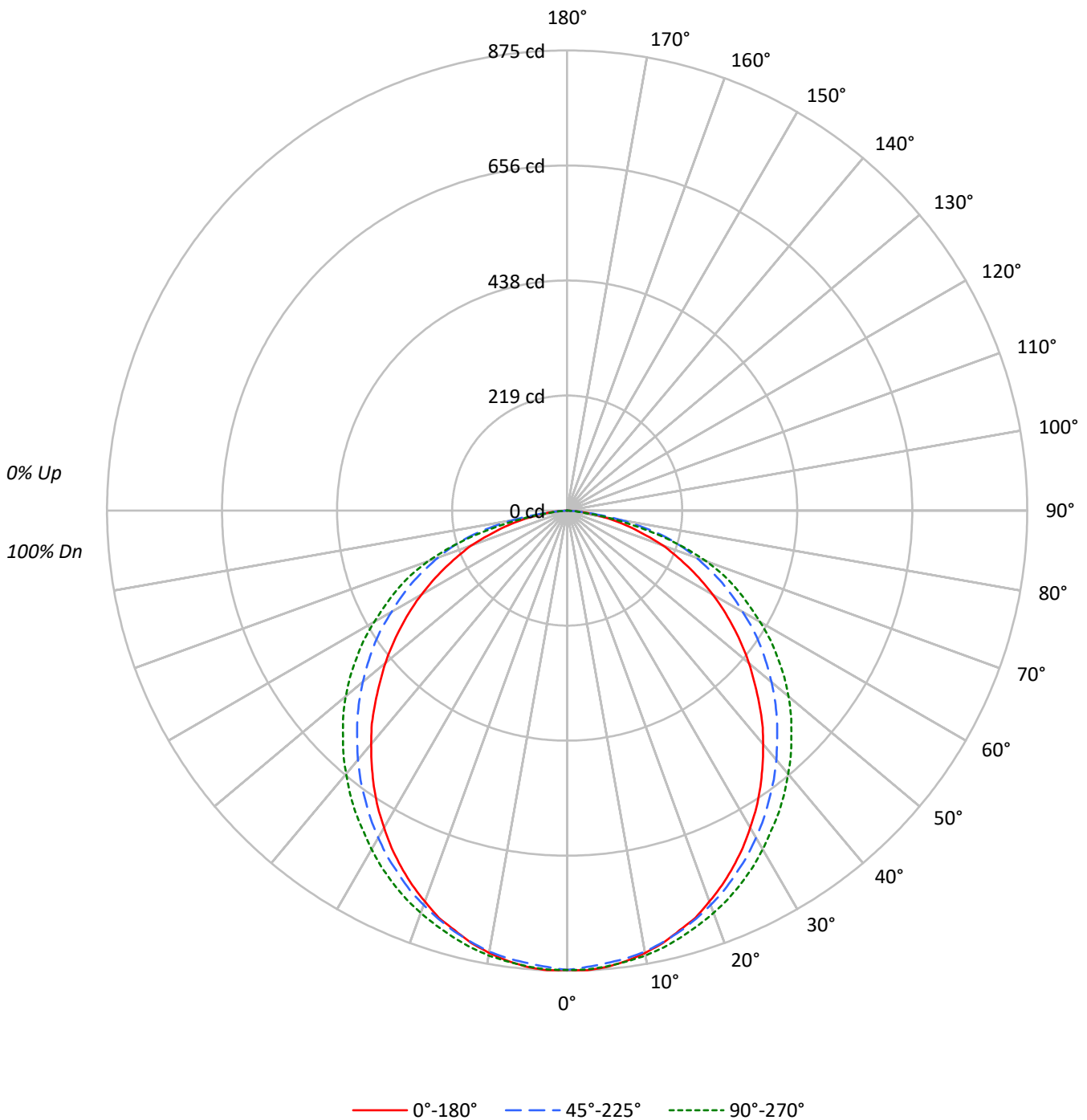
Input Watts (W): 18.414  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2351	2351	2351
5°	2353	2333	2350
10°	2334	2327	2347
15°	2302	2308	2339
20°	2265	2286	2331
25°	2219	2259	2323
30°	2164	2232	2311
35°	2104	2200	2304
40°	2037	2174	2297
45°	1962	2147	2295
50°	1889	2123	2301
55°	1810	2106	2294
60°	1724	2076	2279
65°	1622	2071	2279
70°	1527	2052	2215
75°	1325	2006	1892
80°	1072	1616	1260
85°	713	562	374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.4
10°-20°	234.7	9.6
20°-30°	352.1	14.4
30°-40°	420.0	17.2
40°-50°	434.2	17.7
50°-60°	396.4	16.2
60°-70°	312.0	12.7
70°-80°	181.6	7.4
80°-90°	33.5	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°	669.3	27.4
0°-40°	1089.3	44.5
0°-60°	1920.0	78.5
0°-90°	2447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2447.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	871	869	864	871	870	83
15°	826	827	829	840	840	233
25°	747	751	761	779	782	344
35°	641	649	670	695	701	400
45°	516	533	564	596	603	398
55°	386	406	449	482	489	345
65°	255	282	325	351	358	253
75°	127	158	193	189	182	135
85°	23	33	18	15	12	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	873.5	873.5	873.5	873.5	873.5
2.5°	874.8	872.3	868.7	874.8	873.5
5°	871.1	868.7	863.8	871.1	869.9
7.5°	863.8	861.4	859.0	866.3	865.0
10°	854.1	852.9	851.7	860.2	859.0
12.5°	842.0	842.0	840.8	850.5	850.5
15°	826.2	827.4	828.6	839.6	839.6
17.5°	811.7	810.4	814.1	826.2	827.4
20°	791.0	793.5	798.3	812.9	814.1
22.5°	770.4	772.8	781.3	795.9	799.5
25°	747.4	751.0	760.7	778.9	782.5
27.5°	723.1	727.9	741.3	760.7	764.3
30°	696.4	703.7	718.2	740.1	743.7
32.5°	669.7	677.0	695.2	717.0	721.9
35°	640.6	649.1	669.7	695.2	701.3
37.5°	610.3	621.2	645.4	670.9	678.2
40°	579.9	592.1	618.8	645.4	653.9
42.5°	549.6	561.7	590.9	621.2	629.7
45°	515.6	532.6	564.2	595.7	603.0
47.5°	482.9	501.1	536.3	567.8	577.5
50°	451.3	469.5	507.1	539.9	549.6
52.5°	418.6	438.0	478.0	512.0	520.5
55°	385.8	406.4	448.9	481.7	488.9
57.5°	353.1	374.9	418.6	450.1	458.6
60°	320.3	343.3	385.8	417.4	423.4
62.5°	287.5	311.8	355.5	383.4	389.5
65°	254.8	281.5	325.2	350.6	357.9
67.5°	223.2	249.9	292.4	316.7	322.7
70°	194.1	218.4	260.8	279.0	281.5
72.5°	157.7	188.1	229.3	239.0	232.9
75°	127.4	157.7	192.9	189.3	182.0
77.5°	97.1	127.4	150.4	138.3	128.6
80°	69.2	99.5	104.3	86.1	81.3
82.5°	44.9	69.2	58.2	44.9	36.4
85°	23.1	32.8	18.2	14.6	12.1
87.5°	7.3	4.9	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)