

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: P275521

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275521  
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: 14CZ2-29-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2362.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

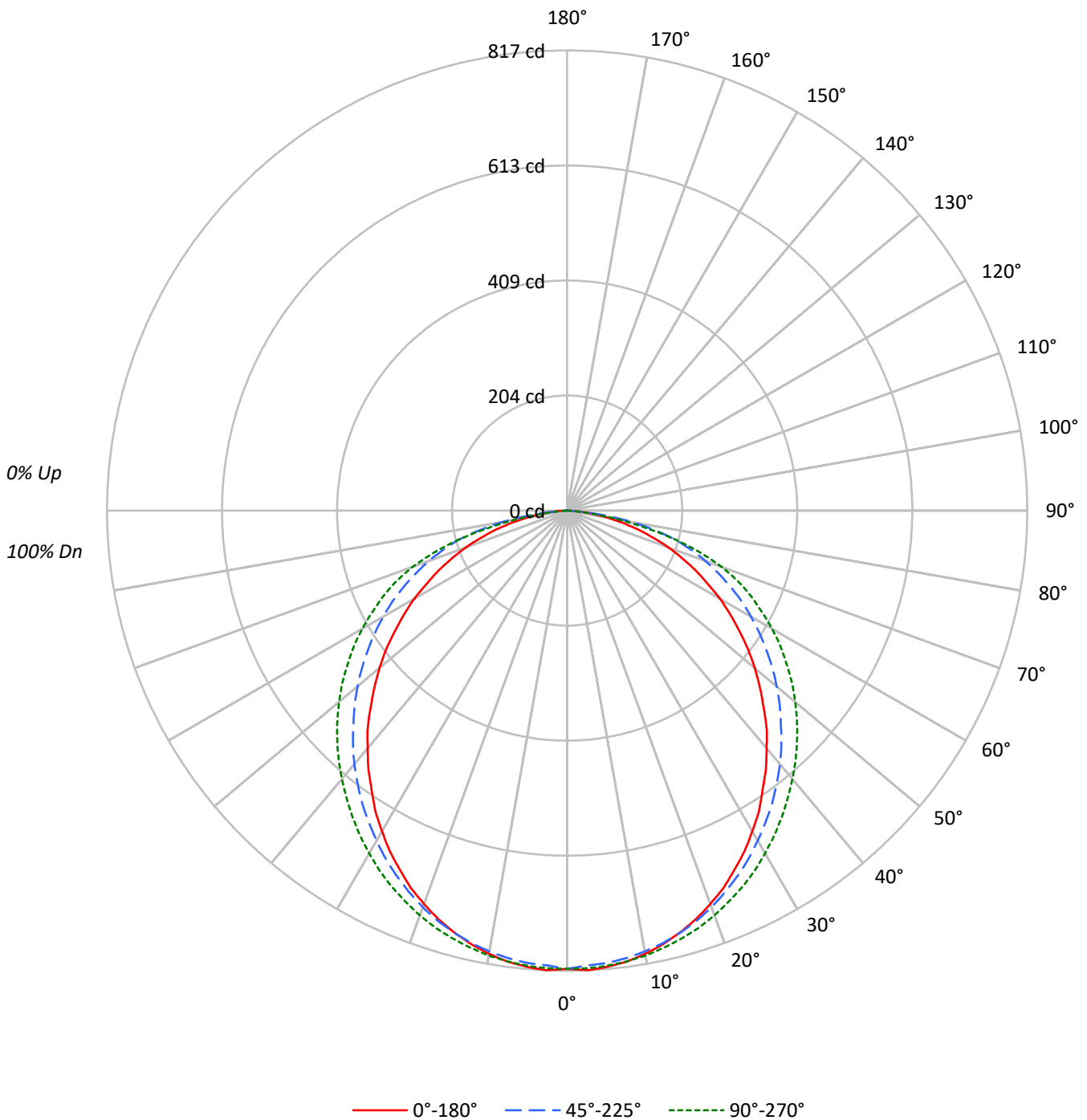
Input Watts (W): 21.948  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2190	2190	2190
5°	2197	2178	2191
10°	2183	2172	2192
15°	2160	2161	2191
20°	2128	2146	2190
25°	2088	2125	2188
30°	2042	2103	2183
35°	1988	2085	2182
40°	1935	2065	2185
45°	1876	2042	2197
50°	1821	2033	2212
55°	1752	2026	2231
60°	1689	2030	2262
65°	1603	2036	2297
70°	1504	2051	2296
75°	1363	2070	2075
80°	1119	1787	1477
85°	831	846	343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	3.3
10°-20°	220.0	9.3
20°-30°	331.3	14.0
30°-40°	397.6	16.8
40°-50°	414.4	17.5
50°-60°	383.7	16.2
60°-70°	310.0	13.1
70°-80°	189.0	8.0
80°-90°	39.0	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°	628.3	26.6
0°-40°	1025.9	43.4
0°-60°	1824.0	77.2
0°-90°	2362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	813	811	806	812	811	77
15°	775	776	776	786	786	219
25°	703	707	716	734	737	324
35°	605	615	635	658	664	379
45°	493	508	537	567	577	381
55°	373	393	432	466	476	335
65°	252	276	320	352	361	249
75°	131	160	199	202	200	138
85°	27	40	27	15	11	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	813.7	813.7	813.7	813.7	813.7
2.5°	816.9	814.2	808.4	814.2	813.2
5°	813.2	811.1	806.3	812.1	811.1
7.5°	807.9	805.8	801.6	808.4	807.4
10°	799.0	797.9	794.8	802.7	802.1
12.5°	788.4	787.9	786.3	795.3	794.8
15°	775.3	775.8	775.8	786.3	786.3
17.5°	760.5	761.6	763.7	775.3	776.8
20°	743.1	745.2	749.5	762.6	764.7
22.5°	725.2	726.8	733.1	748.9	751.0
25°	703.1	707.3	715.8	733.7	736.8
27.5°	682.0	685.7	697.3	715.8	721.0
30°	657.3	663.1	676.8	696.8	702.6
32.5°	633.6	639.9	655.7	678.9	684.2
35°	605.2	614.6	634.6	657.8	664.1
37.5°	579.3	588.3	610.9	636.2	643.6
40°	550.9	562.0	587.8	614.6	622.0
42.5°	524.6	535.1	563.0	590.4	600.4
45°	493.0	507.7	536.7	566.7	577.2
47.5°	464.0	478.7	511.9	544.1	553.5
50°	435.0	450.8	485.6	518.8	528.3
52.5°	405.0	421.9	459.3	492.4	503.5
55°	373.4	392.9	431.9	465.6	475.6
57.5°	343.4	363.4	405.0	439.2	449.3
60°	313.9	334.4	377.1	409.8	420.3
62.5°	281.2	305.5	349.7	381.8	389.7
65°	251.8	276.5	319.7	351.8	360.8
67.5°	220.7	247.5	290.7	320.2	328.6
70°	191.2	219.1	260.7	288.1	291.8
72.5°	159.6	188.0	230.2	247.5	247.5
75°	131.1	160.1	199.1	202.2	199.6
77.5°	100.1	132.2	157.5	151.2	144.8
80°	72.2	103.8	115.3	103.8	95.3
82.5°	48.5	75.3	69.5	55.3	49.0
85°	26.9	40.0	27.4	15.3	11.1
87.5°	10.0	9.0	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)