

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: P275736

Luminaire Tested: **14CZ2-29-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-RDP-UNV-L83050-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1953.0 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

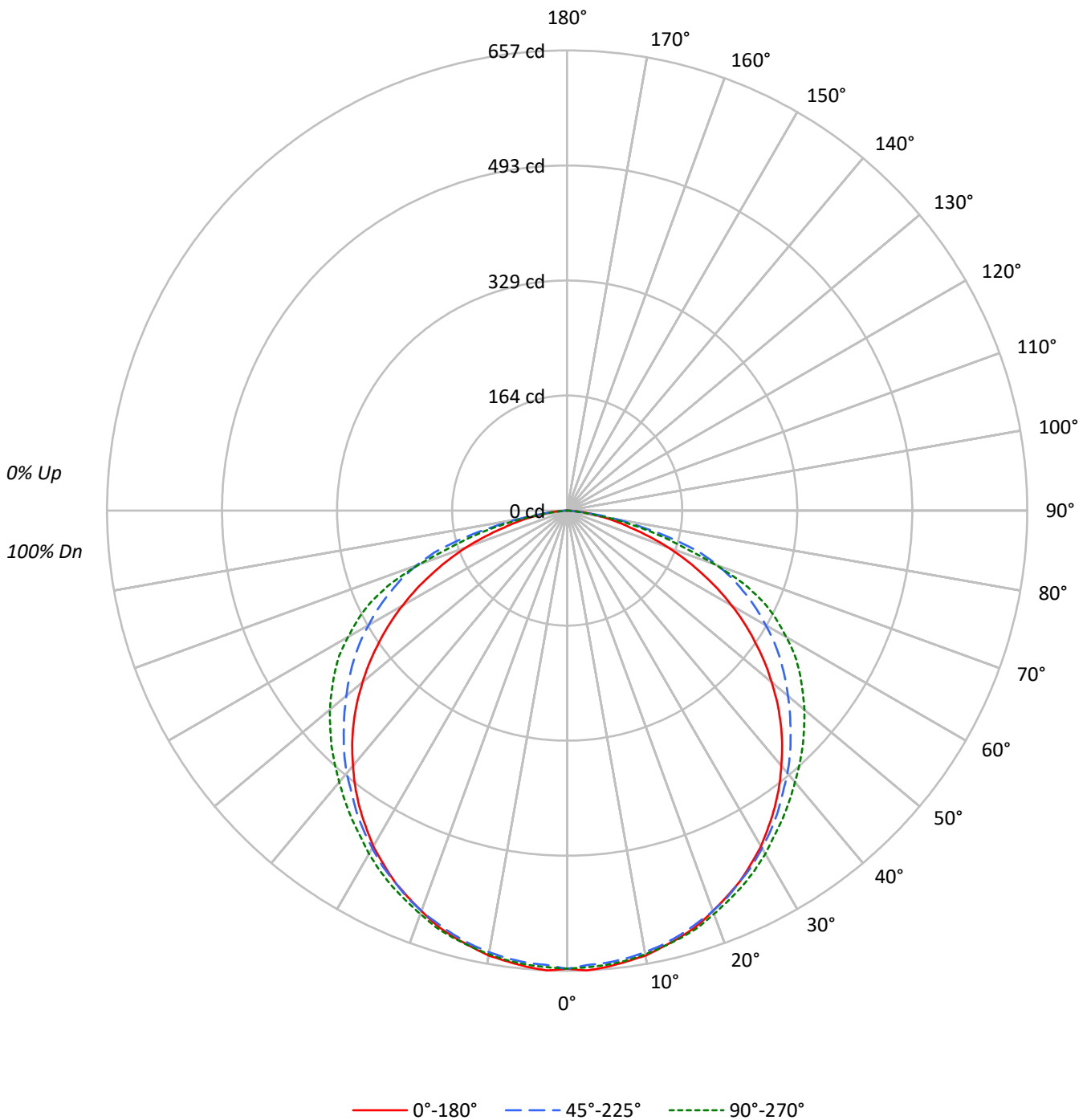
Input Watts (W): 22.599  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

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

	0°	45°	90°
0°	1760	1760	1760
5°	1767	1750	1759
10°	1762	1750	1758
15°	1754	1746	1758
20°	1742	1742	1755
25°	1734	1734	1757
30°	1720	1729	1758
35°	1698	1723	1763
40°	1671	1719	1778
45°	1642	1717	1810
50°	1596	1724	1851
55°	1538	1745	1903
60°	1461	1764	1945
65°	1349	1787	1971
70°	1200	1799	1763
75°	967	1617	1411
80°	756	1134	922
85°	519	330	235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.9	3.2
10°-20°	177.6	9.1
20°-30°	270.5	13.8
30°-40°	329.4	16.9
40°-50°	349.5	17.9
50°-60°	329.9	16.9
60°-70°	266.3	13.6
70°-80°	144.5	7.4
80°-90°	23.4	1.2
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°	510.0	26.1
0°-40°	839.4	43.0
0°-60°	1518.8	77.8
0°-90°	1953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	654	653	648	653	651	62
15°	630	628	627	631	631	178
25°	584	582	584	590	592	269
35°	517	520	524	535	537	323
45°	432	438	451	468	476	332
55°	328	342	372	396	406	293
65°	212	238	281	303	310	210
75°	93	136	156	140	136	102
85°	17	18	11	9	8	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	654.1	654.1	654.1	654.1	654.1
2.5°	657.2	654.1	649.5	654.1	652.6
5°	654.1	652.6	648.0	652.6	651.1
7.5°	649.5	649.5	645.0	648.0	648.0
10°	645.0	643.4	640.4	645.0	643.4
12.5°	637.3	635.8	634.3	638.9	637.3
15°	629.7	628.2	626.7	631.2	631.2
17.5°	620.6	619.0	617.5	623.6	623.6
20°	608.4	608.4	608.4	614.5	612.9
22.5°	596.2	596.2	597.7	603.8	602.3
25°	584.0	582.4	584.0	590.1	591.6
27.5°	568.7	570.2	571.8	577.9	579.4
30°	553.5	555.0	556.5	564.2	565.7
32.5°	535.2	538.2	541.3	550.4	550.4
35°	516.9	519.9	524.5	535.2	536.7
37.5°	497.1	500.1	506.2	518.4	521.5
40°	475.7	480.3	489.4	501.6	506.2
42.5°	454.4	460.5	471.1	484.9	491.0
45°	431.5	437.6	451.3	468.1	475.7
47.5°	407.1	414.7	431.5	452.8	458.9
50°	381.2	391.9	411.7	434.5	442.2
52.5°	355.3	367.5	391.9	416.3	423.9
55°	327.8	341.5	372.0	396.4	405.6
57.5°	300.4	315.6	350.7	376.6	385.8
60°	271.4	289.7	327.8	353.7	361.4
62.5°	242.4	263.8	304.9	330.9	337.0
65°	211.9	237.9	280.6	303.4	309.5
67.5°	183.0	213.5	256.2	272.9	272.9
70°	152.5	186.0	228.7	233.3	224.1
72.5°	122.0	160.1	198.2	181.4	173.8
75°	93.0	135.7	155.5	140.3	135.7
77.5°	70.1	109.8	109.8	100.6	97.6
80°	48.8	83.9	73.2	64.0	59.5
82.5°	32.0	47.3	38.1	30.5	25.9
85°	16.8	18.3	10.7	9.1	7.6
87.5°	6.1	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)