

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: P258957

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2055.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

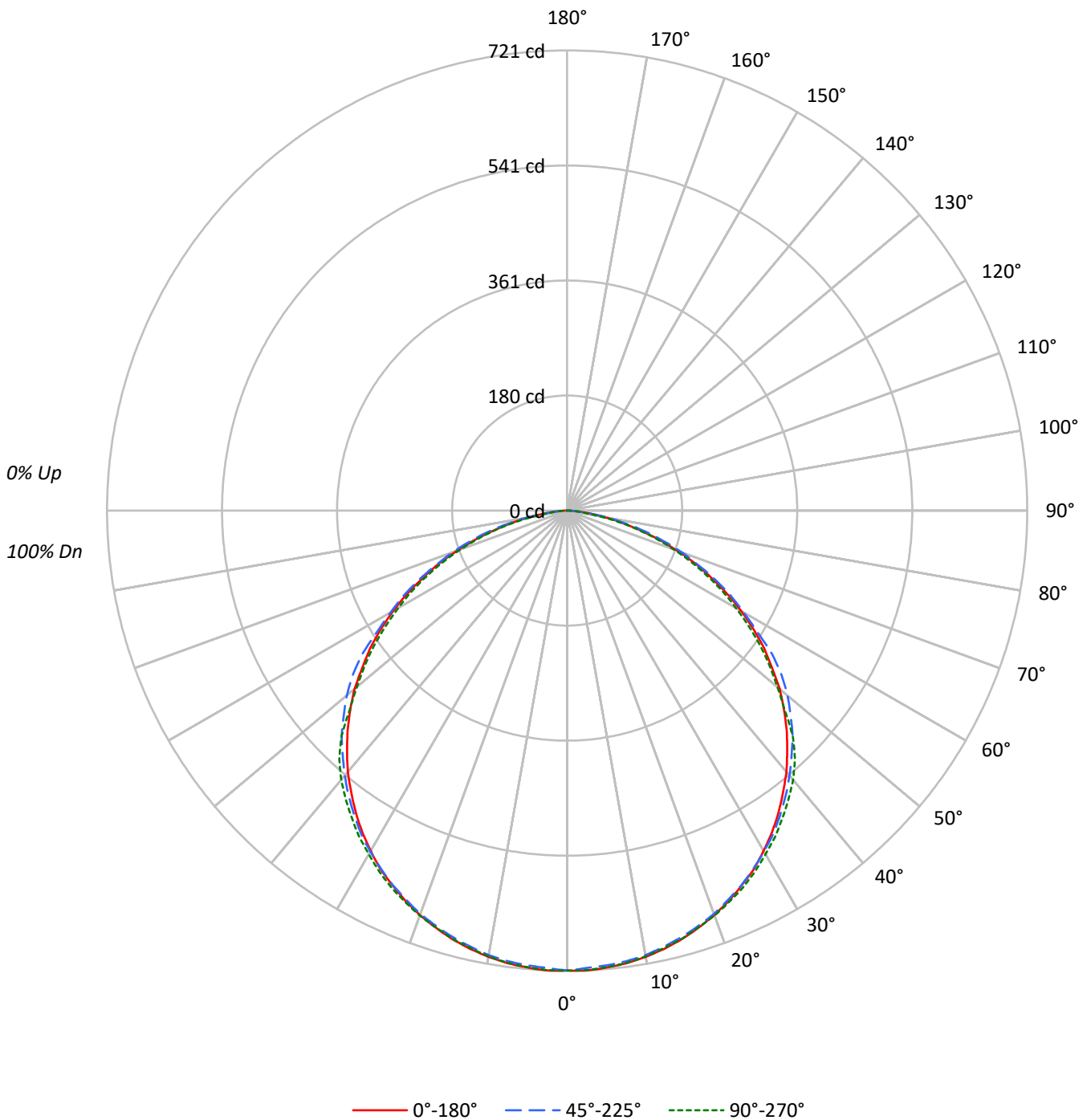
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1939	1939	1939
5°	1941	1932	1940
10°	1940	1933	1938
15°	1937	1928	1935
20°	1932	1926	1934
25°	1923	1921	1935
30°	1913	1917	1931
35°	1897	1912	1932
40°	1878	1904	1934
45°	1851	1902	1904
50°	1820	1887	1800
55°	1769	1838	1734
60°	1694	1720	1644
65°	1587	1629	1544
70°	1444	1502	1397
75°	1205	1316	1184
80°	955	1007	820
85°	621	537	475



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	3.3
10°-20°	196.0	9.5
20°-30°	299.1	14.6
30°-40°	364.7	17.7
40°-50°	381.9	18.6
50°-60°	339.8	16.5
60°-70°	250.7	12.2
70°-80°	129.5	6.3
80°-90°	25.2	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°	563.3	27.4
0°-40°	928.0	45.2
0°-60°	1649.7	80.3
0°-90°	2055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	719	718	715	718	718	68
15°	695	695	692	695	695	196
25°	648	648	647	652	652	299
35°	577	578	582	589	588	361
45°	486	490	500	504	500	375
55°	377	385	392	375	370	336
65°	249	267	256	247	242	247
75°	116	128	127	116	114	125
85°	20	22	17	16	15	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	720.7	720.7	720.7	720.7	720.7
2.5°	721.4	720.7	717.3	720.7	720.7
5°	718.7	718.0	715.3	718.0	718.0
7.5°	715.3	714.7	712.0	714.7	714.7
10°	710.0	709.3	707.3	710.0	709.3
12.5°	703.3	703.3	699.9	703.3	701.9
15°	695.2	694.6	691.9	694.6	694.6
17.5°	685.2	684.5	682.5	685.9	684.5
20°	674.5	673.8	672.5	675.8	675.2
22.5°	661.8	661.8	659.7	663.8	663.8
25°	647.7	647.7	647.0	651.7	651.7
27.5°	633.6	632.3	632.3	637.0	637.6
30°	615.5	615.5	616.9	622.2	621.6
32.5°	597.5	598.1	600.8	605.5	606.2
35°	577.4	578.0	582.0	588.7	588.1
37.5°	555.9	557.9	562.6	570.0	570.0
40°	534.5	535.8	541.9	549.9	550.6
42.5°	510.4	513.7	520.4	529.8	528.5
45°	486.3	489.6	499.7	504.4	500.3
47.5°	460.8	464.8	474.9	475.6	462.2
50°	434.7	439.4	450.8	437.4	430.0
52.5°	404.6	413.3	423.3	404.6	399.9
55°	377.1	385.1	391.8	375.1	369.7
57.5°	346.3	357.0	352.3	344.3	337.6
60°	314.8	326.2	319.5	311.5	305.4
62.5°	282.7	295.4	288.7	280.6	275.3
65°	249.2	266.6	255.9	247.2	242.5
67.5°	217.7	234.4	221.7	215.0	210.3
70°	183.5	197.6	190.9	182.2	177.5
72.5°	150.0	160.8	158.7	149.4	146.0
75°	115.9	127.9	126.6	116.5	113.9
77.5°	87.1	98.5	94.4	86.4	83.1
80°	61.6	69.0	65.0	55.6	52.9
82.5°	37.5	43.5	36.8	31.5	28.8
85°	20.1	22.1	17.4	16.1	15.4
87.5°	7.4	7.4	7.4	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)