

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: P258955

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258955  
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-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2030.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 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

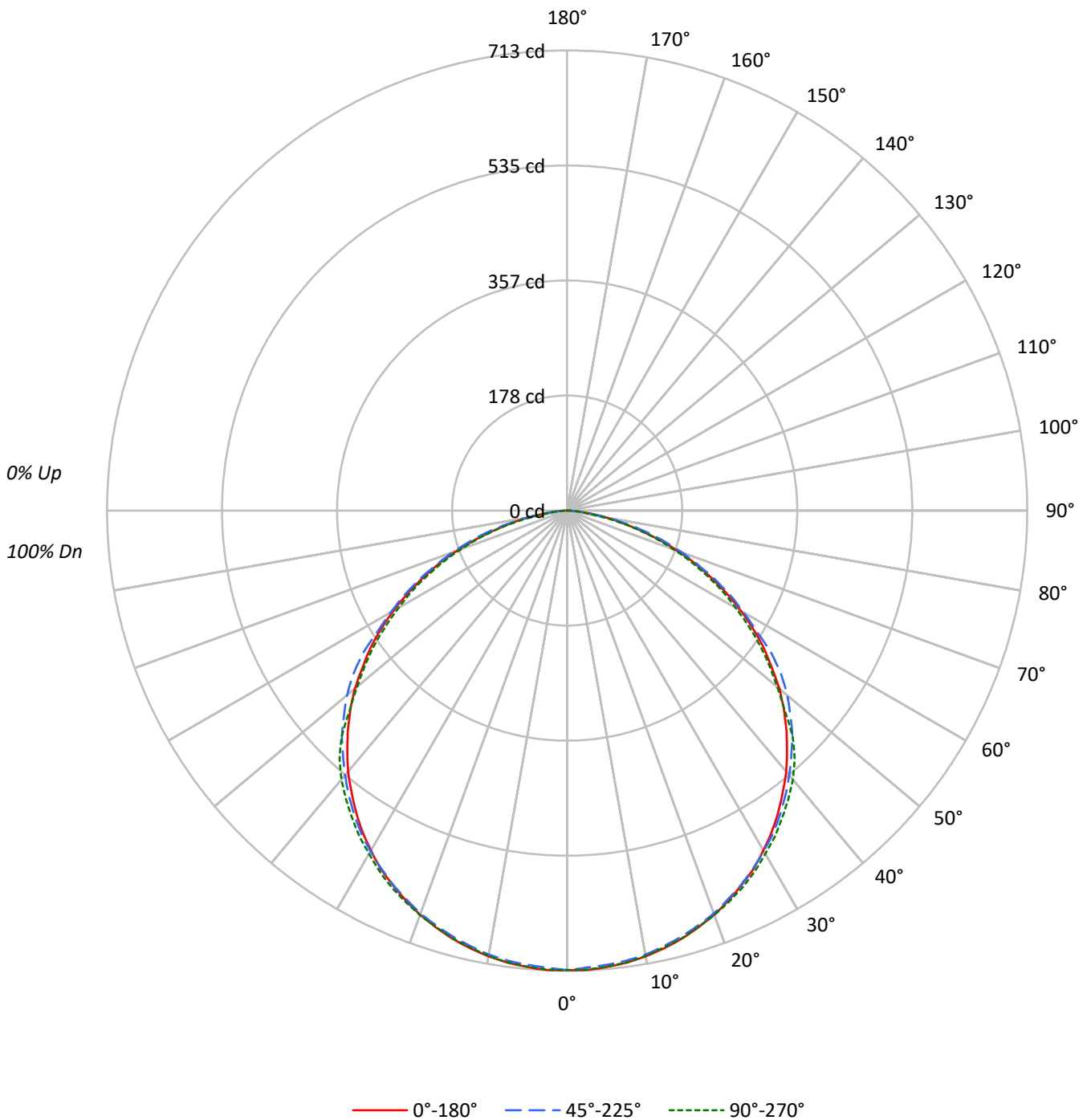
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1916	1916	1916
5°	1918	1909	1916
10°	1916	1909	1915
15°	1913	1904	1911
20°	1908	1902	1910
25°	1900	1898	1912
30°	1890	1894	1908
35°	1873	1889	1908
40°	1855	1880	1911
45°	1828	1878	1881
50°	1798	1864	1778
55°	1748	1816	1713
60°	1674	1699	1624
65°	1567	1609	1525
70°	1426	1484	1379
75°	1190	1301	1170
80°	944	995	810
85°	611	531	469



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	3.3
10°-20°	193.6	9.5
20°-30°	295.5	14.6
30°-40°	360.3	17.7
40°-50°	377.2	18.6
50°-60°	335.6	16.5
60°-70°	247.6	12.2
70°-80°	127.9	6.3
80°-90°	24.9	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°	556.5	27.4
0°-40°	916.8	45.2
0°-60°	1629.6	80.3
0°-90°	2030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	710	709	707	709	709	68
15°	687	686	684	686	686	194
25°	640	640	639	644	644	295
35°	570	571	575	582	581	357
45°	480	484	494	498	494	370
55°	372	380	387	370	365	332
65°	246	263	253	244	240	244
75°	114	126	125	115	112	124
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°	711.9	711.9	711.9	711.9	711.9
2.5°	712.6	711.9	708.6	711.9	711.9
5°	709.9	709.3	706.6	709.3	709.3
7.5°	706.6	706.0	703.3	706.0	706.0
10°	701.3	700.7	698.7	701.3	700.7
12.5°	694.7	694.7	691.4	694.7	693.4
15°	686.8	686.1	683.5	686.1	686.1
17.5°	676.9	676.2	674.2	677.5	676.2
20°	666.3	665.6	664.3	667.6	666.9
22.5°	653.7	653.7	651.7	655.7	655.7
25°	639.8	639.8	639.1	643.8	643.8
27.5°	625.9	624.6	624.6	629.2	629.9
30°	608.1	608.1	609.4	614.7	614.0
32.5°	590.2	590.8	593.5	598.1	598.8
35°	570.3	571.0	575.0	581.6	580.9
37.5°	549.2	551.1	555.8	563.1	563.1
40°	528.0	529.3	535.3	543.2	543.9
42.5°	504.2	507.5	514.1	523.4	522.0
45°	480.4	483.7	493.6	498.2	494.2
47.5°	455.2	459.2	469.1	469.8	456.5
50°	429.4	434.0	445.3	432.1	424.8
52.5°	399.6	408.2	418.2	399.6	395.0
55°	372.5	380.4	387.1	370.5	365.2
57.5°	342.1	352.7	348.0	340.1	333.5
60°	311.0	322.2	315.6	307.7	301.7
62.5°	279.2	291.8	285.2	277.2	271.9
65°	246.1	263.3	252.7	244.1	239.5
67.5°	215.0	231.6	219.0	212.4	207.8
70°	181.3	195.2	188.6	180.0	175.3
72.5°	148.2	158.8	156.8	147.5	144.2
75°	114.5	126.4	125.1	115.1	112.5
77.5°	86.0	97.3	93.3	85.4	82.0
80°	60.9	68.1	64.2	54.9	52.3
82.5°	37.1	43.0	36.4	31.1	28.5
85°	19.8	21.8	17.2	15.9	15.2
87.5°	7.3	7.3	7.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)