

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: P259123

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-29-SQP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1953.0 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

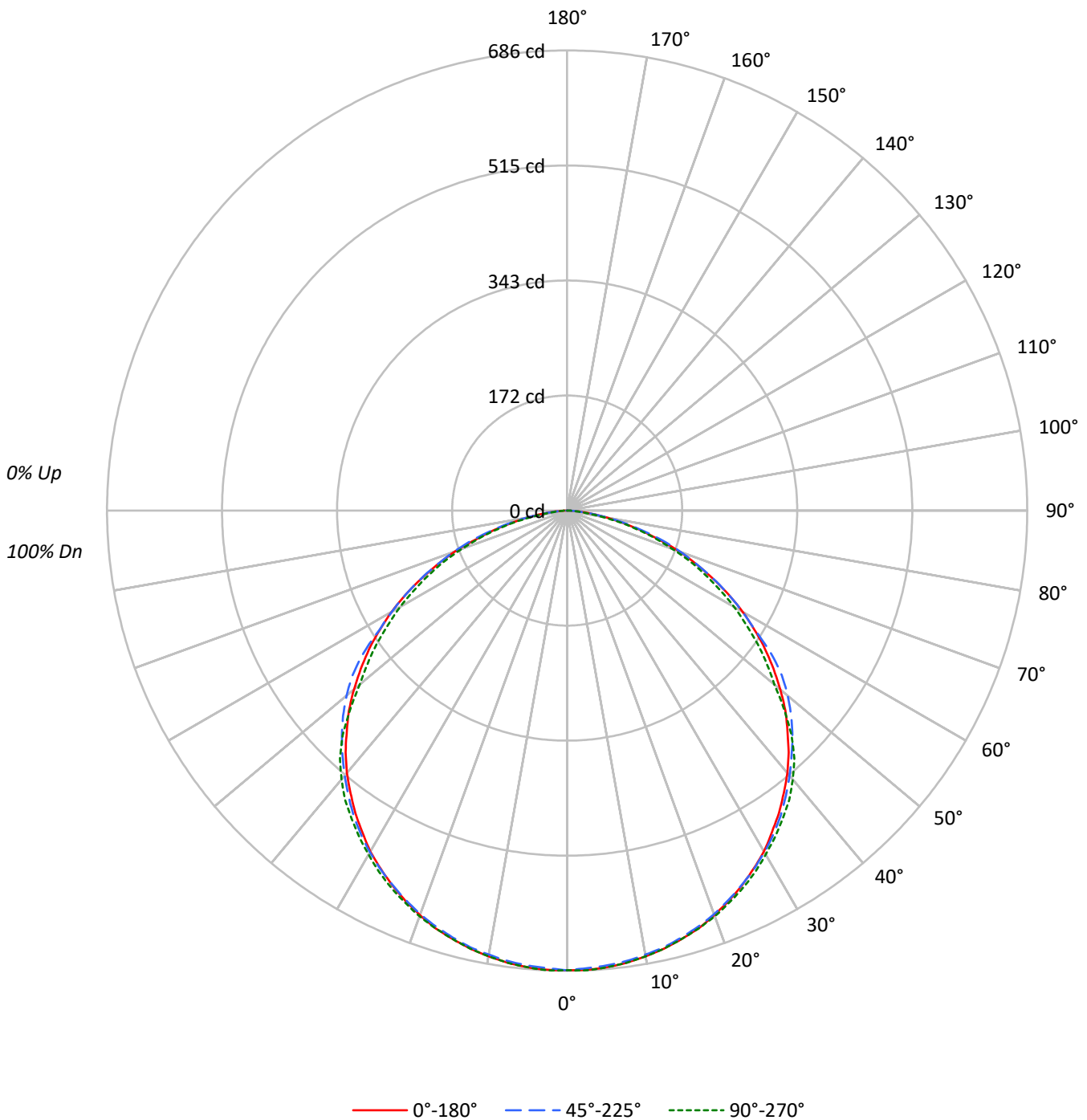
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1844	1844	1844
5°	1846	1839	1846
10°	1844	1837	1844
15°	1841	1836	1841
20°	1838	1834	1843
25°	1830	1829	1842
30°	1823	1827	1840
35°	1808	1823	1841
40°	1794	1813	1838
45°	1767	1808	1800
50°	1737	1797	1689
55°	1691	1741	1626
60°	1627	1624	1549
65°	1525	1533	1449
70°	1400	1415	1312
75°	1176	1231	1121
80°	933	953	789
85°	611	531	451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	3.3
10°-20°	186.5	9.6
20°-30°	284.8	14.6
30°-40°	347.5	17.8
40°-50°	363.4	18.6
50°-60°	321.7	16.5
60°-70°	236.9	12.1
70°-80°	122.7	6.3
80°-90°	24.4	1.3
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°	536.3	27.5
0°-40°	883.8	45.3
0°-60°	1569.0	80.3
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°	685	685	685	685	685	
5°	683	683	681	683	683	65
15°	661	661	659	662	661	187
25°	616	616	616	620	620	284
35°	550	552	555	560	560	344
45°	464	468	475	479	473	359
55°	360	368	371	352	347	322
65°	240	254	241	232	228	237
75°	113	121	118	111	108	121
85°	20	21	17	15	15	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	685.3	685.3	685.3	685.3	685.3
2.5°	685.3	685.3	682.7	685.3	686.0
5°	683.4	683.4	680.7	683.4	683.4
7.5°	680.0	679.4	677.4	680.0	680.0
10°	674.8	674.8	672.1	675.4	674.8
12.5°	668.8	668.1	666.8	669.5	668.8
15°	660.9	660.9	658.9	661.5	660.9
17.5°	652.9	652.3	650.3	652.9	652.9
20°	641.7	641.0	640.4	643.0	643.7
22.5°	629.8	629.1	628.5	632.4	632.4
25°	616.5	616.5	615.9	619.9	620.5
27.5°	602.0	602.0	602.7	607.9	607.3
30°	586.8	586.8	588.1	592.1	592.1
32.5°	568.3	569.6	572.2	576.9	576.9
35°	550.4	551.7	555.0	560.3	560.3
37.5°	530.5	532.5	535.8	542.5	543.8
40°	510.7	512.0	516.0	523.3	523.3
42.5°	488.9	490.2	495.5	502.8	501.4
45°	464.4	468.4	475.0	478.9	473.0
47.5°	441.2	443.9	453.1	448.5	438.6
50°	414.8	420.1	429.3	412.8	403.5
52.5°	387.7	393.6	403.5	380.4	375.1
55°	360.5	367.8	371.1	351.9	346.6
57.5°	331.4	339.4	332.7	321.5	316.2
60°	302.3	311.6	301.7	291.1	287.8
62.5°	271.9	282.5	271.2	262.0	257.3
65°	239.5	254.0	240.8	231.5	227.6
67.5°	207.7	222.9	209.0	201.1	198.5
70°	178.0	186.6	179.9	172.0	166.7
72.5°	142.2	150.8	149.5	140.9	137.6
75°	113.1	121.1	118.4	111.1	107.8
77.5°	84.0	92.6	90.0	81.4	80.0
80°	60.2	66.2	61.5	53.6	50.9
82.5°	37.7	42.3	36.4	30.4	29.1
85°	19.8	21.2	17.2	15.2	14.6
87.5°	6.6	7.3	7.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)