

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: P259126

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259126  
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-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1982.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 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

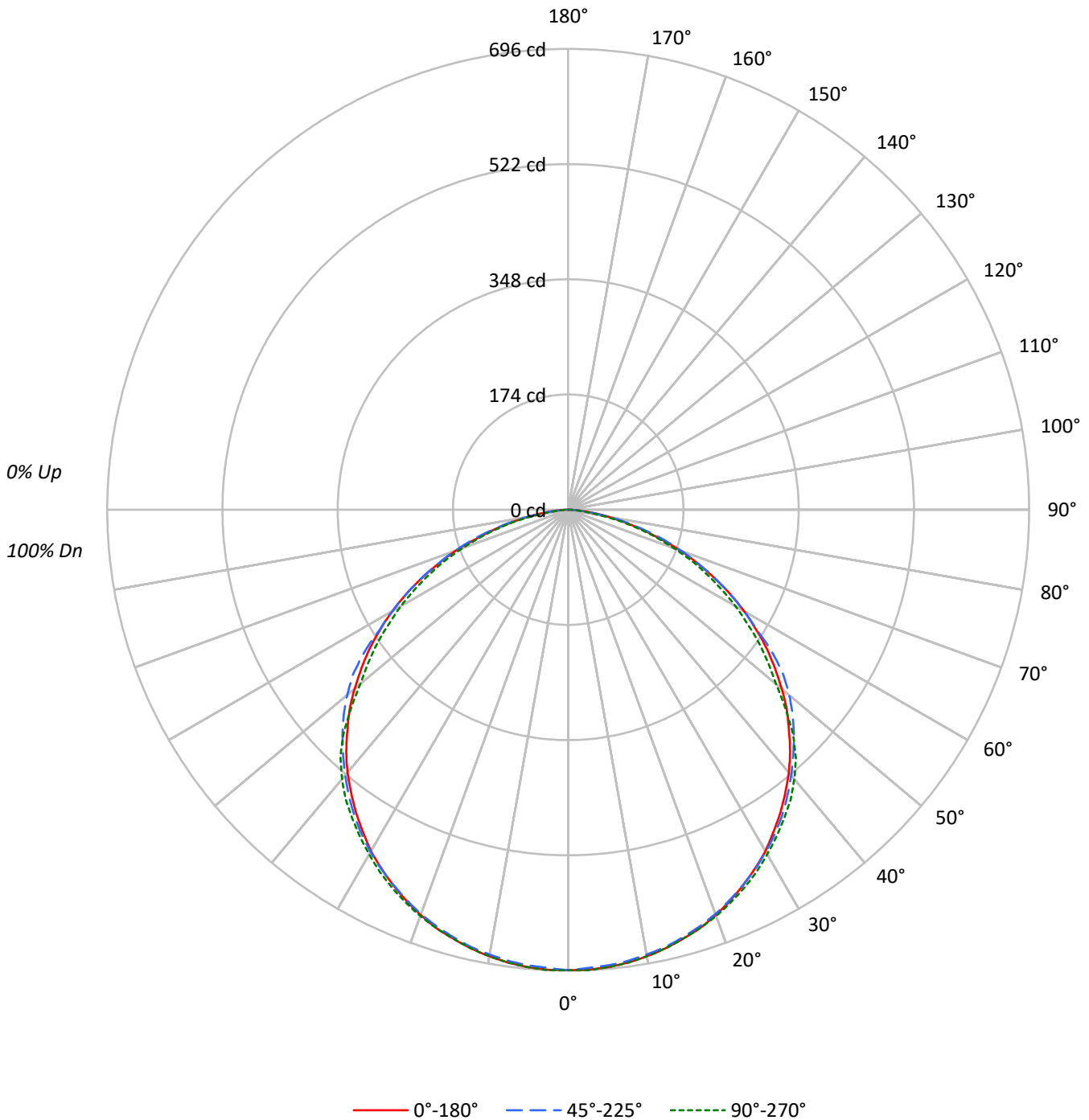
Input Watts (W): 23.157  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1872	1872	1872
5°	1873	1866	1873
10°	1871	1864	1871
15°	1869	1863	1869
20°	1865	1861	1871
25°	1858	1856	1870
30°	1850	1854	1867
35°	1835	1850	1868
40°	1821	1840	1865
45°	1794	1834	1827
50°	1762	1824	1714
55°	1717	1767	1650
60°	1651	1647	1572
65°	1547	1556	1470
70°	1421	1437	1331
75°	1194	1250	1137
80°	947	967	801
85°	621	540	457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	3.3
10°-20°	189.3	9.6
20°-30°	289.1	14.6
30°-40°	352.7	17.8
40°-50°	368.8	18.6
50°-60°	326.5	16.5
60°-70°	240.4	12.1
70°-80°	124.5	6.3
80°-90°	24.8	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°	544.3	27.5
0°-40°	896.9	45.3
0°-60°	1592.3	80.3
0°-90°	1982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	694	694	691	694	694	66
15°	671	671	669	671	671	189
25°	626	626	625	629	630	288
35°	559	560	563	569	569	349
45°	471	475	482	486	480	364
55°	366	373	377	357	352	326
65°	243	258	244	235	231	241
75°	115	123	120	113	109	123
85°	20	22	18	15	15	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	695.5	695.5	695.5	695.5	695.5
2.5°	695.5	695.5	692.8	695.5	696.2
5°	693.5	693.5	690.8	693.5	693.5
7.5°	690.1	689.5	687.5	690.1	690.1
10°	684.8	684.8	682.1	685.4	684.8
12.5°	678.7	678.1	676.7	679.4	678.7
15°	670.7	670.7	668.7	671.3	670.7
17.5°	662.6	662.0	659.9	662.6	662.6
20°	651.2	650.5	649.9	652.6	653.2
22.5°	639.1	638.5	637.8	641.8	641.8
25°	625.7	625.7	625.0	629.1	629.7
27.5°	610.9	610.9	611.6	617.0	616.3
30°	595.5	595.5	596.8	600.9	600.9
32.5°	576.7	578.0	580.7	585.4	585.4
35°	558.6	559.9	563.3	568.6	568.6
37.5°	538.4	540.4	543.8	550.5	551.8
40°	518.3	519.6	523.7	531.0	531.0
42.5°	496.1	497.5	502.8	510.2	508.9
45°	471.3	475.3	482.0	486.1	480.0
47.5°	447.8	450.5	459.9	455.2	445.1
50°	420.9	426.3	435.7	418.9	409.5
52.5°	393.4	399.5	409.5	386.0	380.7
55°	365.9	373.3	376.6	357.2	351.8
57.5°	336.3	344.4	337.7	326.3	320.9
60°	306.8	316.2	306.1	295.4	292.0
62.5°	275.9	286.7	275.3	265.9	261.2
65°	243.0	257.8	244.4	235.0	230.9
67.5°	210.8	226.2	212.1	204.1	201.4
70°	180.6	189.3	182.6	174.6	169.2
72.5°	144.3	153.1	151.7	143.0	139.6
75°	114.8	122.9	120.2	112.8	109.4
77.5°	85.3	94.0	91.3	82.6	81.2
80°	61.1	67.1	62.4	54.4	51.7
82.5°	38.3	43.0	36.9	30.9	29.5
85°	20.1	21.5	17.5	15.4	14.8
87.5°	6.7	7.4	7.4	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)