

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: P259125

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259125
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1977.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

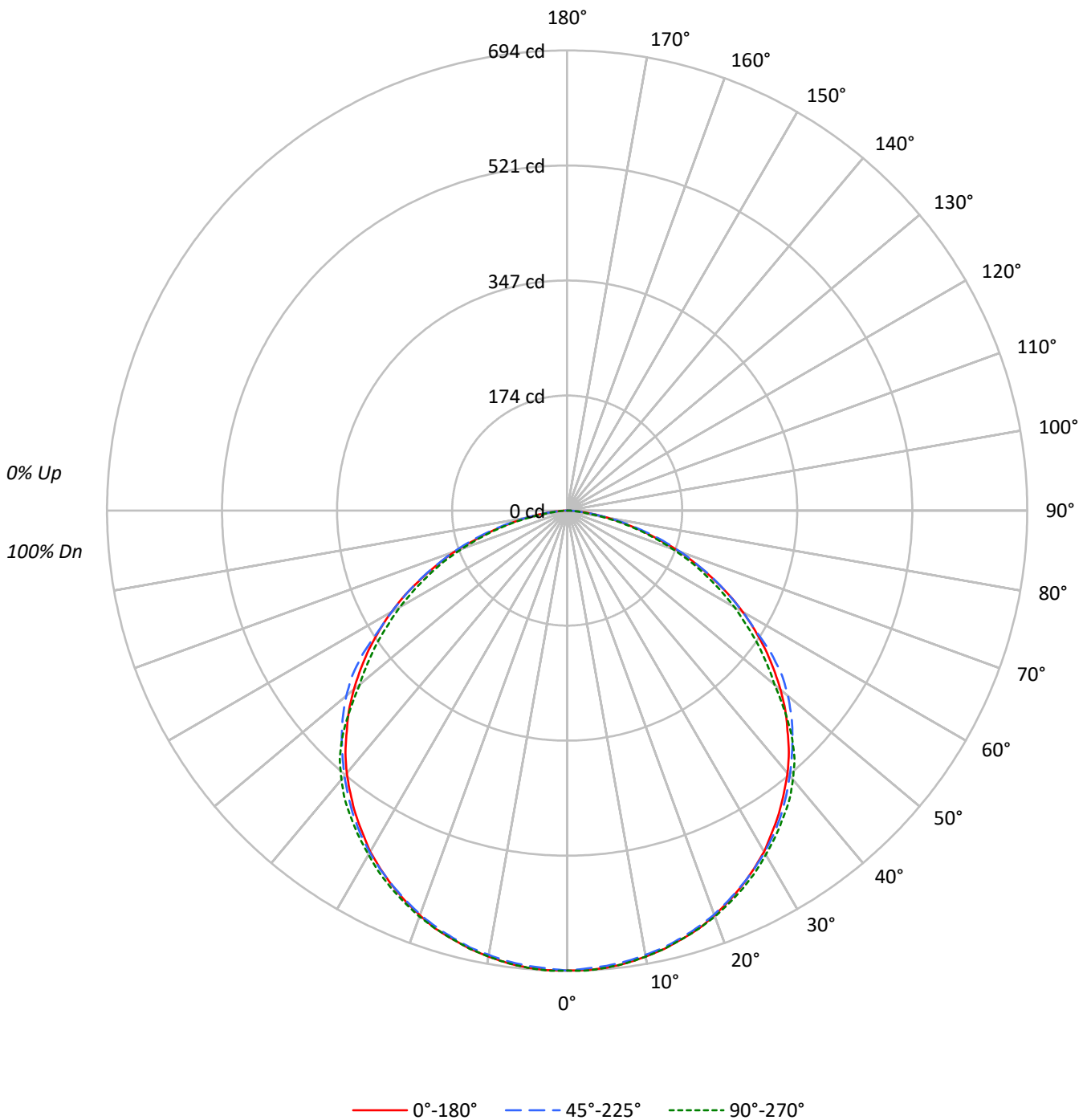
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1867	1867	1867
5°	1869	1861	1869
10°	1866	1859	1866
15°	1864	1858	1864
20°	1860	1856	1866
25°	1853	1851	1865
30°	1846	1850	1862
35°	1830	1846	1863
40°	1816	1835	1861
45°	1789	1830	1822
50°	1758	1819	1710
55°	1712	1763	1646
60°	1647	1644	1568
65°	1543	1552	1467
70°	1417	1433	1328
75°	1190	1247	1135
80°	944	965	800
85°	621	537	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.3
10°-20°	188.8	9.6
20°-30°	288.3	14.6
30°-40°	351.8	17.8
40°-50°	367.9	18.6
50°-60°	325.7	16.5
60°-70°	239.8	12.1
70°-80°	124.2	6.3
80°-90°	24.7	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°	542.9	27.5
0°-40°	894.7	45.3
0°-60°	1588.3	80.3
0°-90°	1977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	692	692	689	692	692	66
15°	669	669	667	670	669	189
25°	624	624	624	628	628	288
35°	557	558	562	567	567	348
45°	470	474	481	485	479	363
55°	365	372	376	356	351	326
65°	242	257	244	234	230	240
75°	114	122	120	112	109	122
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°	693.8	693.8	693.8	693.8	693.8
2.5°	693.8	693.8	691.1	693.8	694.4
5°	691.8	691.8	689.1	691.8	691.8
7.5°	688.4	687.7	685.7	688.4	688.4
10°	683.0	683.0	680.4	683.7	683.0
12.5°	677.0	676.4	675.0	677.7	677.0
15°	669.0	669.0	667.0	669.7	669.0
17.5°	661.0	660.3	658.3	661.0	661.0
20°	649.6	648.9	648.2	650.9	651.6
22.5°	637.5	636.8	636.2	640.2	640.2
25°	624.1	624.1	623.5	627.5	628.1
27.5°	609.4	609.4	610.1	615.4	614.7
30°	594.0	594.0	595.3	599.3	599.3
32.5°	575.2	576.6	579.3	583.9	583.9
35°	557.2	558.5	561.8	567.2	567.2
37.5°	537.1	539.1	542.4	549.1	550.5
40°	517.0	518.3	522.3	529.7	529.7
42.5°	494.9	496.2	501.6	508.9	507.6
45°	470.1	474.1	480.8	484.8	478.8
47.5°	446.7	449.3	458.7	454.0	444.0
50°	419.9	425.2	434.6	417.9	408.5
52.5°	392.4	398.4	408.5	385.1	379.7
55°	365.0	372.3	375.7	356.3	350.9
57.5°	335.5	343.5	336.8	325.5	320.1
60°	306.0	315.4	305.4	294.6	291.3
62.5°	275.2	285.9	274.6	265.2	260.5
65°	242.4	257.1	243.8	234.4	230.4
67.5°	210.3	225.7	211.6	203.6	200.9
70°	180.1	188.8	182.1	174.1	168.8
72.5°	144.0	152.7	151.3	142.6	139.3
75°	114.5	122.5	119.9	112.5	109.2
77.5°	85.0	93.8	91.1	82.4	81.0
80°	60.9	67.0	62.3	54.2	51.6
82.5°	38.2	42.9	36.8	30.8	29.5
85°	20.1	21.4	17.4	15.4	14.7
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)