

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: P259121

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259121
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1893.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

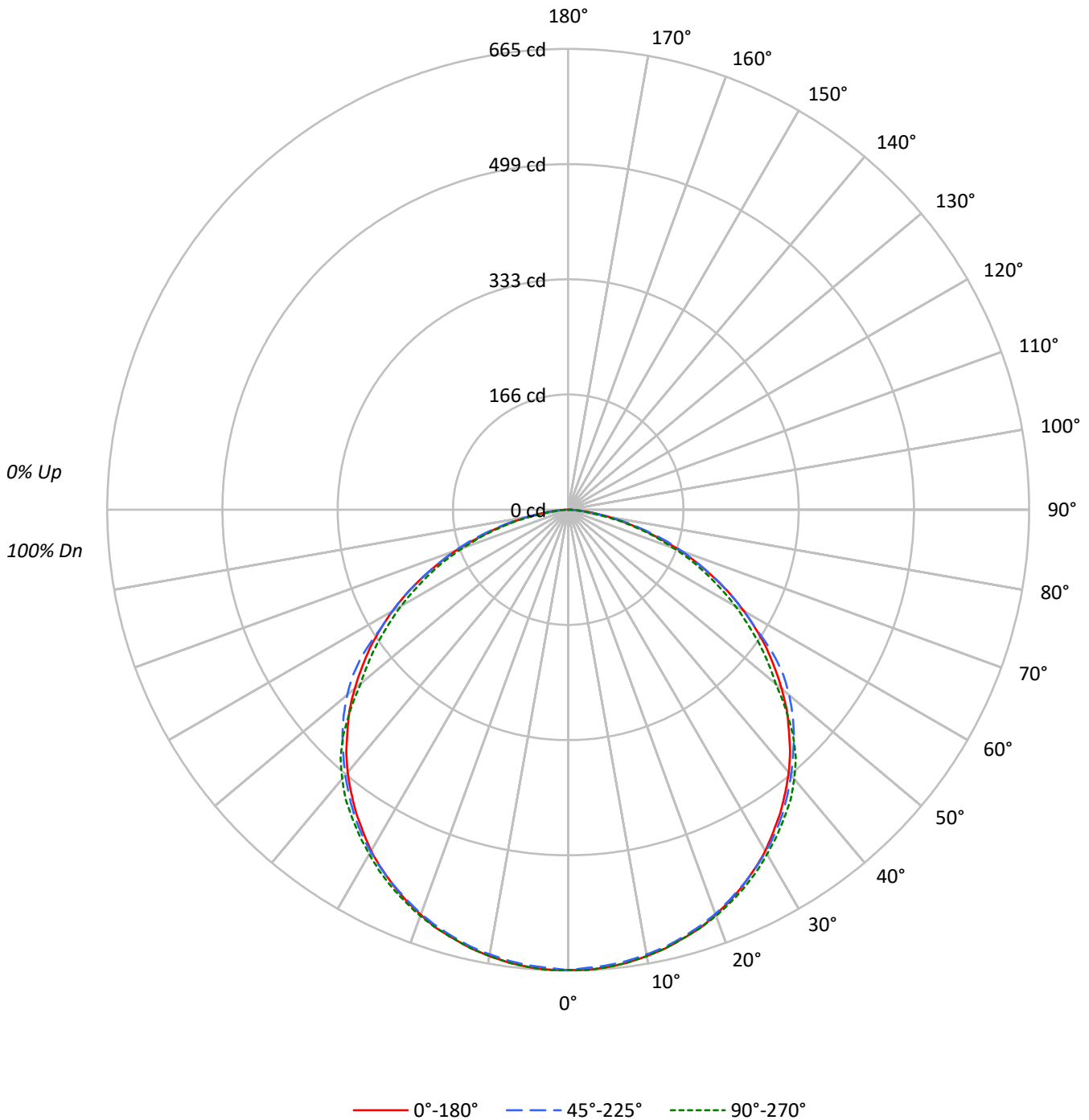
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1788	1788	1788
5°	1789	1782	1789
10°	1787	1780	1787
15°	1785	1779	1785
20°	1781	1777	1787
25°	1774	1773	1786
30°	1767	1771	1783
35°	1753	1767	1784
40°	1739	1757	1782
45°	1713	1752	1745
50°	1683	1742	1637
55°	1640	1688	1576
60°	1577	1574	1501
65°	1478	1486	1405
70°	1357	1372	1271
75°	1140	1194	1087
80°	903	924	766
85°	593	516	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.3
10°-20°	180.8	9.6
20°-30°	276.1	14.6
30°-40°	336.9	17.8
40°-50°	352.2	18.6
50°-60°	311.8	16.5
60°-70°	229.6	12.1
70°-80°	118.9	6.3
80°-90°	23.7	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°	519.8	27.5
0°-40°	856.7	45.3
0°-60°	1520.8	80.3
0°-90°	1893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	662	662	660	662	662	63
15°	641	641	639	641	641	181
25°	598	598	597	601	601	275
35°	534	535	538	543	543	334
45°	450	454	460	464	458	348
55°	350	356	360	341	336	312
65°	232	246	233	224	221	230
75°	110	117	115	108	104	117
85°	19	20	17	15	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.3	664.3	664.3	664.3	664.3
2.5°	664.3	664.3	661.7	664.3	664.9
5°	662.4	662.4	659.8	662.4	662.4
7.5°	659.2	658.5	656.6	659.2	659.2
10°	654.0	654.0	651.5	654.7	654.0
12.5°	648.3	647.6	646.3	648.9	648.3
15°	640.6	640.6	638.6	641.2	640.6
17.5°	632.9	632.2	630.3	632.9	632.9
20°	622.0	621.3	620.7	623.2	623.9
22.5°	610.4	609.8	609.1	613.0	613.0
25°	597.6	597.6	597.0	600.8	601.4
27.5°	583.5	583.5	584.1	589.3	588.6
30°	568.7	568.7	570.0	573.9	573.9
32.5°	550.8	552.1	554.6	559.1	559.1
35°	533.5	534.8	538.0	543.1	543.1
37.5°	514.2	516.2	519.4	525.8	527.1
40°	495.0	496.3	500.1	507.2	507.2
42.5°	473.8	475.1	480.3	487.3	486.0
45°	450.1	454.0	460.4	464.2	458.5
47.5°	427.7	430.2	439.2	434.7	425.1
50°	402.0	407.2	416.1	400.1	391.1
52.5°	375.7	381.5	391.1	368.7	363.6
55°	349.5	356.5	359.7	341.1	336.0
57.5°	321.2	328.9	322.5	311.6	306.5
60°	293.0	302.0	292.4	282.1	278.9
62.5°	263.5	273.8	262.9	253.9	249.4
65°	232.1	246.2	233.4	224.4	220.6
67.5°	201.3	216.1	202.6	194.9	192.4
70°	172.5	180.8	174.4	166.7	161.6
72.5°	137.9	146.2	144.9	136.6	133.4
75°	109.6	117.3	114.8	107.7	104.5
77.5°	81.4	89.8	87.2	78.9	77.6
80°	58.3	64.1	59.6	51.9	49.4
82.5°	36.5	41.0	35.3	29.5	28.2
85°	19.2	20.5	16.7	14.7	14.1
87.5°	6.4	7.1	7.1	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)