

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: P259119

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259119
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-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1791.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

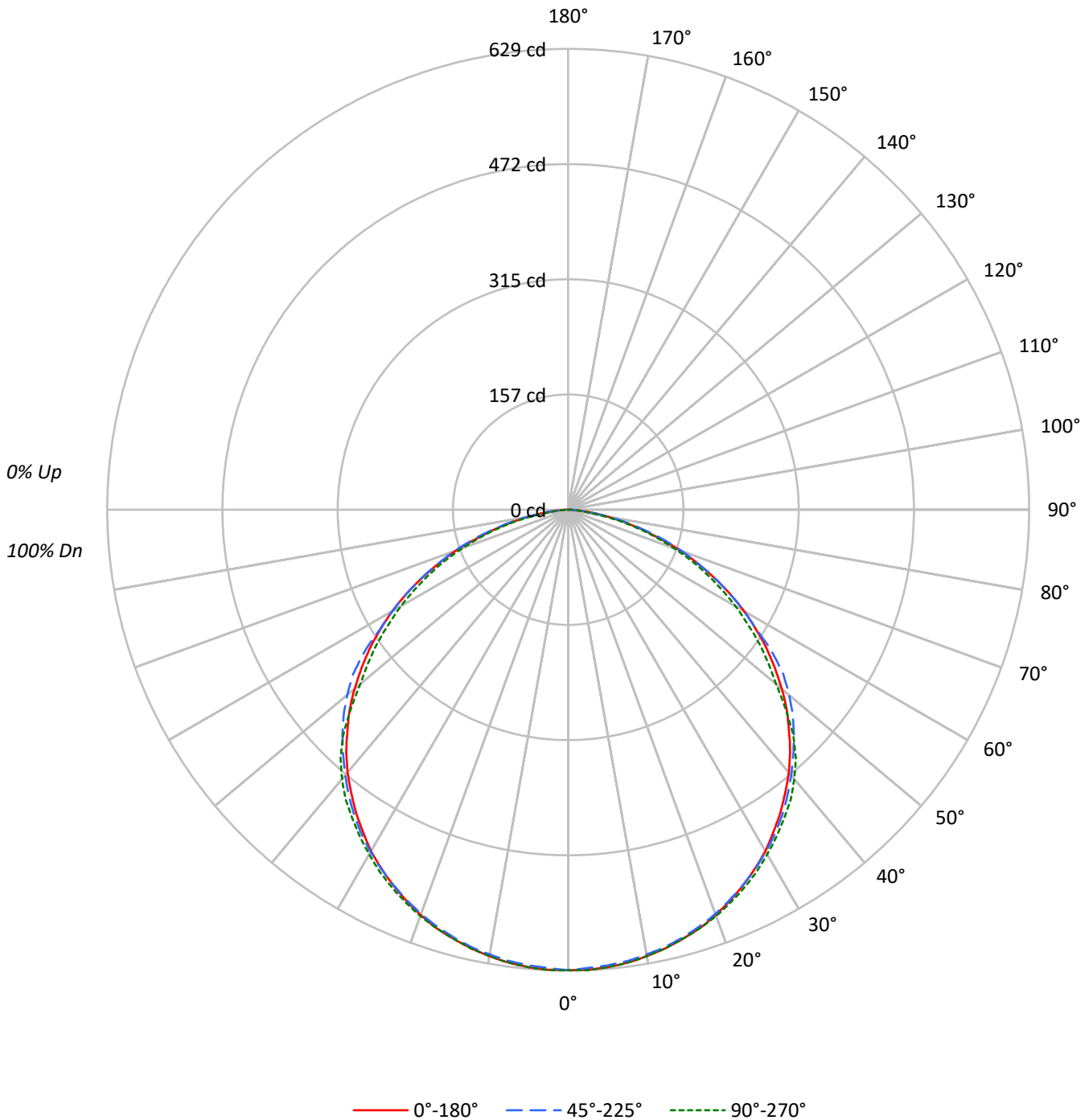
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1691	1691	1691
5°	1693	1686	1693
10°	1691	1684	1691
15°	1688	1683	1688
20°	1685	1682	1690
25°	1679	1677	1689
30°	1672	1676	1687
35°	1658	1672	1688
40°	1645	1662	1686
45°	1621	1658	1651
50°	1593	1648	1549
55°	1551	1597	1491
60°	1492	1489	1420
65°	1398	1406	1329
70°	1284	1298	1203
75°	1078	1129	1028
80°	855	874	724
85°	562	488	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.3
10°-20°	171.1	9.6
20°-30°	261.2	14.6
30°-40°	318.7	17.8
40°-50°	333.3	18.6
50°-60°	295.0	16.5
60°-70°	217.3	12.1
70°-80°	112.5	6.3
80°-90°	22.4	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°	491.8	27.5
0°-40°	810.5	45.3
0°-60°	1438.8	80.3
0°-90°	1791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	627	627	624	627	627	60
15°	606	606	604	607	606	171
25°	565	565	565	568	569	261
35°	505	506	509	514	514	316
45°	426	430	436	439	434	329
55°	331	337	340	323	318	295
65°	220	233	221	212	209	218
75°	104	111	109	102	99	111
85°	18	19	16	14	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	628.5	628.5	628.5	628.5	628.5
2.5°	628.5	628.5	626.1	628.5	629.1
5°	626.7	626.7	624.2	626.7	626.7
7.5°	623.6	623.0	621.2	623.6	623.6
10°	618.8	618.8	616.4	619.4	618.8
12.5°	613.3	612.7	611.5	613.9	613.3
15°	606.0	606.0	604.2	606.7	606.0
17.5°	598.8	598.2	596.3	598.8	598.8
20°	588.5	587.8	587.2	589.7	590.3
22.5°	577.5	576.9	576.3	580.0	580.0
25°	565.4	565.4	564.8	568.4	569.0
27.5°	552.1	552.1	552.7	557.5	556.9
30°	538.1	538.1	539.3	543.0	543.0
32.5°	521.1	522.3	524.8	529.0	529.0
35°	504.7	505.9	509.0	513.8	513.8
37.5°	486.5	488.4	491.4	497.5	498.7
40°	468.3	469.6	473.2	479.9	479.9
42.5°	448.3	449.5	454.4	461.1	459.8
45°	425.9	429.5	435.6	439.2	433.8
47.5°	404.6	407.1	415.6	411.3	402.2
50°	380.4	385.2	393.7	378.6	370.1
52.5°	355.5	361.0	370.1	348.8	344.0
55°	330.6	337.3	340.3	322.7	317.9
57.5°	303.9	311.2	305.1	294.8	290.0
60°	277.2	285.7	276.6	266.9	263.9
62.5°	249.3	259.0	248.7	240.2	236.0
65°	219.6	233.0	220.8	212.3	208.7
67.5°	190.5	204.4	191.7	184.4	182.0
70°	163.2	171.1	165.0	157.7	152.9
72.5°	130.4	138.3	137.1	129.2	126.2
75°	103.7	111.0	108.6	101.9	98.9
77.5°	77.0	84.9	82.5	74.6	73.4
80°	55.2	60.7	56.4	49.1	46.7
82.5°	34.6	38.8	33.4	27.9	26.7
85°	18.2	19.4	15.8	14.0	13.3
87.5°	6.1	6.7	6.7	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)