

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: P259050

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259050
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-L83050-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: 1792.0 lumens
Efficiency: N/A
Efficacy: 81.0 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

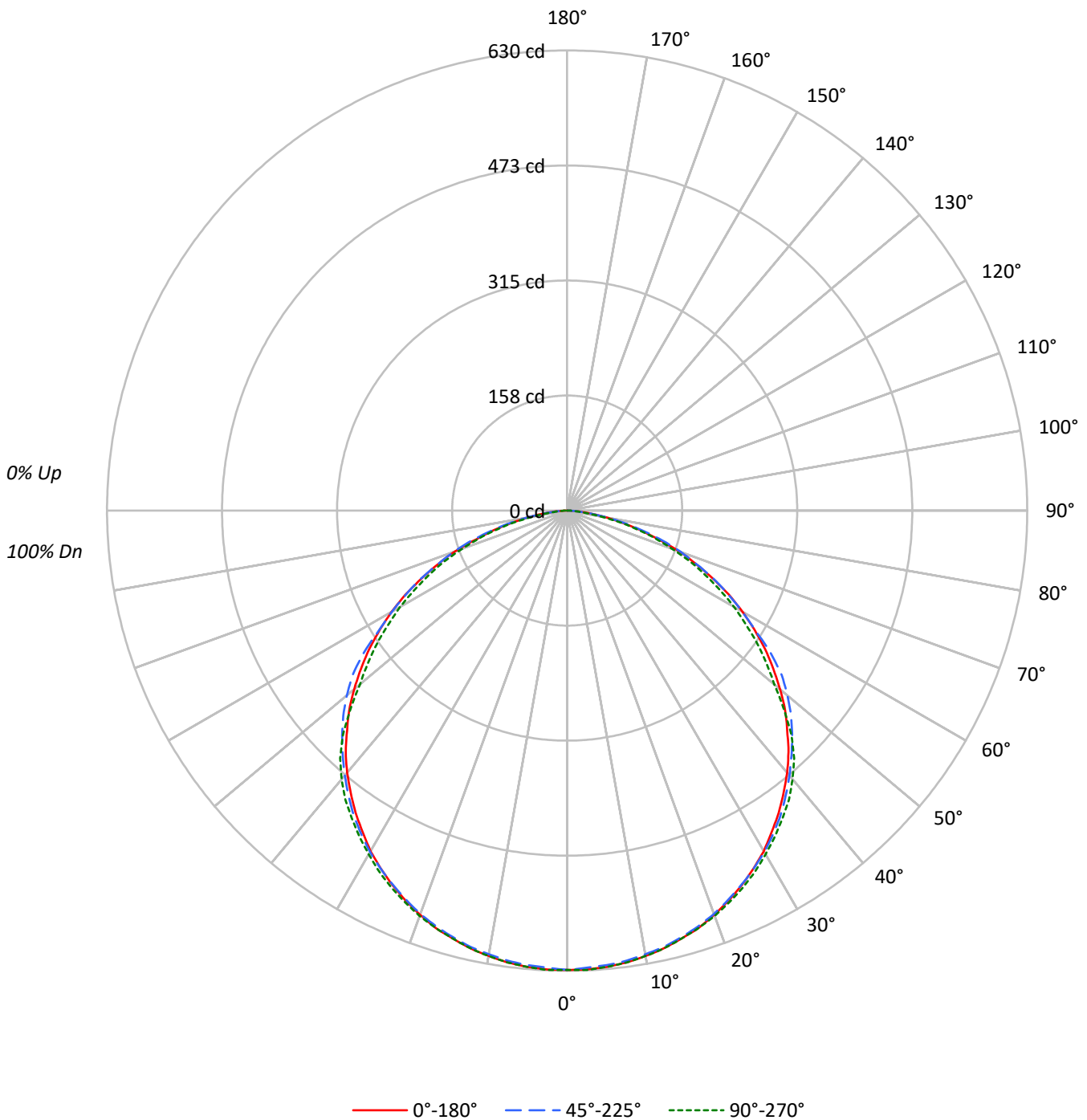
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1692	1692	1692
5°	1694	1687	1694
10°	1692	1685	1692
15°	1689	1684	1689
20°	1686	1683	1691
25°	1680	1678	1691
30°	1673	1677	1688
35°	1659	1673	1689
40°	1646	1663	1687
45°	1622	1658	1652
50°	1593	1649	1550
55°	1552	1597	1492
60°	1493	1490	1421
65°	1399	1407	1330
70°	1285	1299	1204
75°	1079	1130	1028
80°	855	876	724
85°	562	488	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.3
10°-20°	171.2	9.6
20°-30°	261.4	14.6
30°-40°	318.9	17.8
40°-50°	333.5	18.6
50°-60°	295.2	16.5
60°-70°	217.4	12.1
70°-80°	112.6	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°	492.1	27.5
0°-40°	811.0	45.3
0°-60°	1439.6	80.3
0°-90°	1792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	627	627	625	627	627	60
15°	606	606	605	607	606	171
25°	566	566	565	569	569	261
35°	505	506	509	514	514	316
45°	426	430	436	440	434	329
55°	331	338	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°	628.8	628.8	628.8	628.8	628.8
2.5°	628.8	628.8	626.4	628.8	629.5
5°	627.0	627.0	624.6	627.0	627.0
7.5°	624.0	623.4	621.6	624.0	624.0
10°	619.1	619.1	616.7	619.7	619.1
12.5°	613.7	613.1	611.8	614.3	613.7
15°	606.4	606.4	604.6	607.0	606.4
17.5°	599.1	598.5	596.7	599.1	599.1
20°	588.8	588.2	587.6	590.0	590.6
22.5°	577.9	577.2	576.6	580.3	580.3
25°	565.7	565.7	565.1	568.8	569.4
27.5°	552.4	552.4	553.0	557.8	557.2
30°	538.4	538.4	539.6	543.3	543.3
32.5°	521.4	522.6	525.0	529.3	529.3
35°	505.0	506.2	509.3	514.1	514.1
37.5°	486.8	488.6	491.7	497.7	498.9
40°	468.6	469.8	473.5	480.1	480.1
42.5°	448.6	449.8	454.6	461.3	460.1
45°	426.1	429.8	435.8	439.5	434.0
47.5°	404.9	407.3	415.8	411.5	402.4
50°	380.6	385.4	393.9	378.8	370.3
52.5°	355.7	361.2	370.3	349.0	344.2
55°	330.8	337.5	340.5	322.9	318.1
57.5°	304.1	311.4	305.3	295.0	290.1
60°	277.4	285.9	276.8	267.1	264.0
62.5°	249.5	259.2	248.9	240.4	236.1
65°	219.7	233.1	220.9	212.4	208.8
67.5°	190.6	204.6	191.8	184.5	182.1
70°	163.3	171.2	165.1	157.8	153.0
72.5°	130.5	138.4	137.2	129.3	126.3
75°	103.8	111.1	108.7	102.0	98.9
77.5°	77.1	85.0	82.6	74.7	73.4
80°	55.2	60.7	56.5	49.2	46.7
82.5°	34.6	38.8	33.4	27.9	26.7
85°	18.2	19.4	15.8	14.0	13.4
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)