

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: P259182

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259182
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-LD5-35-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1858.0 lumens
Efficiency: N/A
Efficacy: 68.4 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

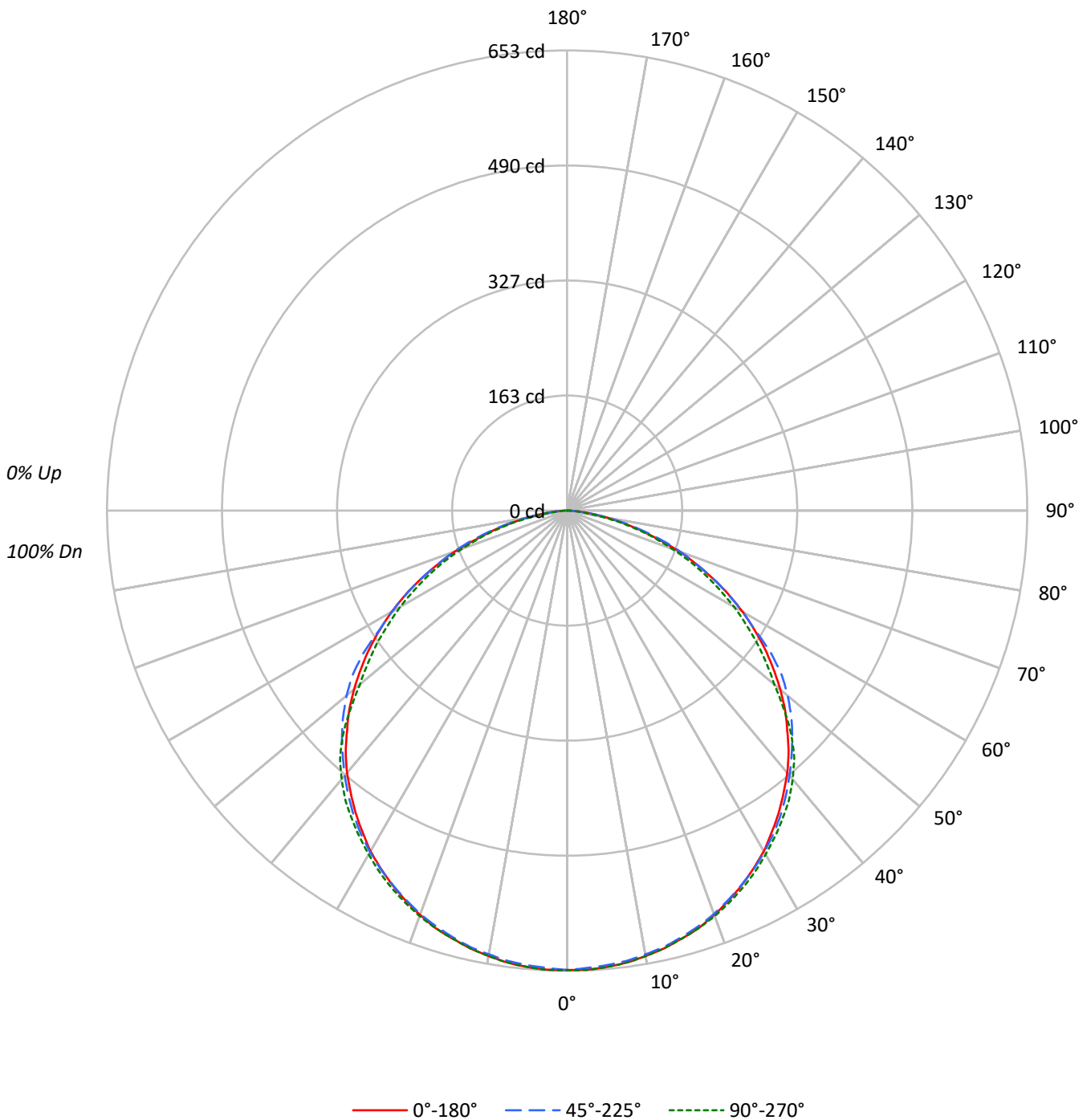
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1755	1755	1755
5°	1756	1749	1756
10°	1754	1747	1754
15°	1751	1746	1751
20°	1748	1745	1754
25°	1742	1740	1753
30°	1734	1739	1750
35°	1720	1735	1751
40°	1707	1724	1749
45°	1681	1720	1713
50°	1652	1710	1607
55°	1609	1657	1547
60°	1548	1545	1474
65°	1450	1459	1379
70°	1332	1347	1248
75°	1119	1172	1067
80°	888	907	752
85°	584	506	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	3.3
10°-20°	177.5	9.6
20°-30°	271.0	14.6
30°-40°	330.6	17.8
40°-50°	345.7	18.6
50°-60°	306.1	16.5
60°-70°	225.4	12.1
70°-80°	116.7	6.3
80°-90°	23.3	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°	510.2	27.5
0°-40°	840.8	45.3
0°-60°	1492.7	80.3
0°-90°	1858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	650	650	648	650	650	62
15°	629	629	627	629	629	178
25°	587	587	586	590	590	270
35°	524	525	528	533	533	328
45°	442	446	452	456	450	341
55°	343	350	353	335	330	306
65°	228	242	229	220	216	226
75°	108	115	113	106	103	115
85°	19	20	16	14	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.0	652.0	652.0	652.0	652.0
2.5°	652.0	652.0	649.5	652.0	652.6
5°	650.1	650.1	647.6	650.1	650.1
7.5°	647.0	646.3	644.5	647.0	647.0
10°	641.9	641.9	639.4	642.6	641.9
12.5°	636.3	635.6	634.4	636.9	636.3
15°	628.7	628.7	626.8	629.3	628.7
17.5°	621.2	620.5	618.6	621.2	621.2
20°	610.5	609.8	609.2	611.7	612.4
22.5°	599.1	598.5	597.9	601.7	601.7
25°	586.6	586.6	585.9	589.7	590.3
27.5°	572.7	572.7	573.3	578.4	577.7
30°	558.2	558.2	559.5	563.3	563.3
32.5°	540.6	541.9	544.4	548.8	548.8
35°	523.6	524.9	528.0	533.1	533.1
37.5°	504.7	506.6	509.8	516.1	517.3
40°	485.9	487.1	490.9	497.8	497.8
42.5°	465.1	466.3	471.4	478.3	477.0
45°	441.8	445.6	451.9	455.6	450.0
47.5°	419.8	422.3	431.1	426.7	417.3
50°	394.6	399.6	408.4	392.7	383.9
52.5°	368.8	374.5	383.9	361.9	356.8
55°	343.0	349.9	353.1	334.8	329.8
57.5°	315.3	322.9	316.6	305.9	300.8
60°	287.6	296.4	287.0	276.9	273.8
62.5°	258.7	268.7	258.0	249.2	244.8
65°	227.8	241.7	229.1	220.3	216.5
67.5°	197.6	212.1	198.9	191.3	188.8
70°	169.3	177.5	171.2	163.6	158.6
72.5°	135.3	143.5	142.2	134.1	130.9
75°	107.6	115.2	112.7	105.7	102.6
77.5°	79.9	88.1	85.6	77.4	76.2
80°	57.3	62.9	58.5	51.0	48.5
82.5°	35.9	40.3	34.6	29.0	27.7
85°	18.9	20.1	16.4	14.5	13.8
87.5°	6.3	6.9	6.9	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)