

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: P259120

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259120
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1852.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

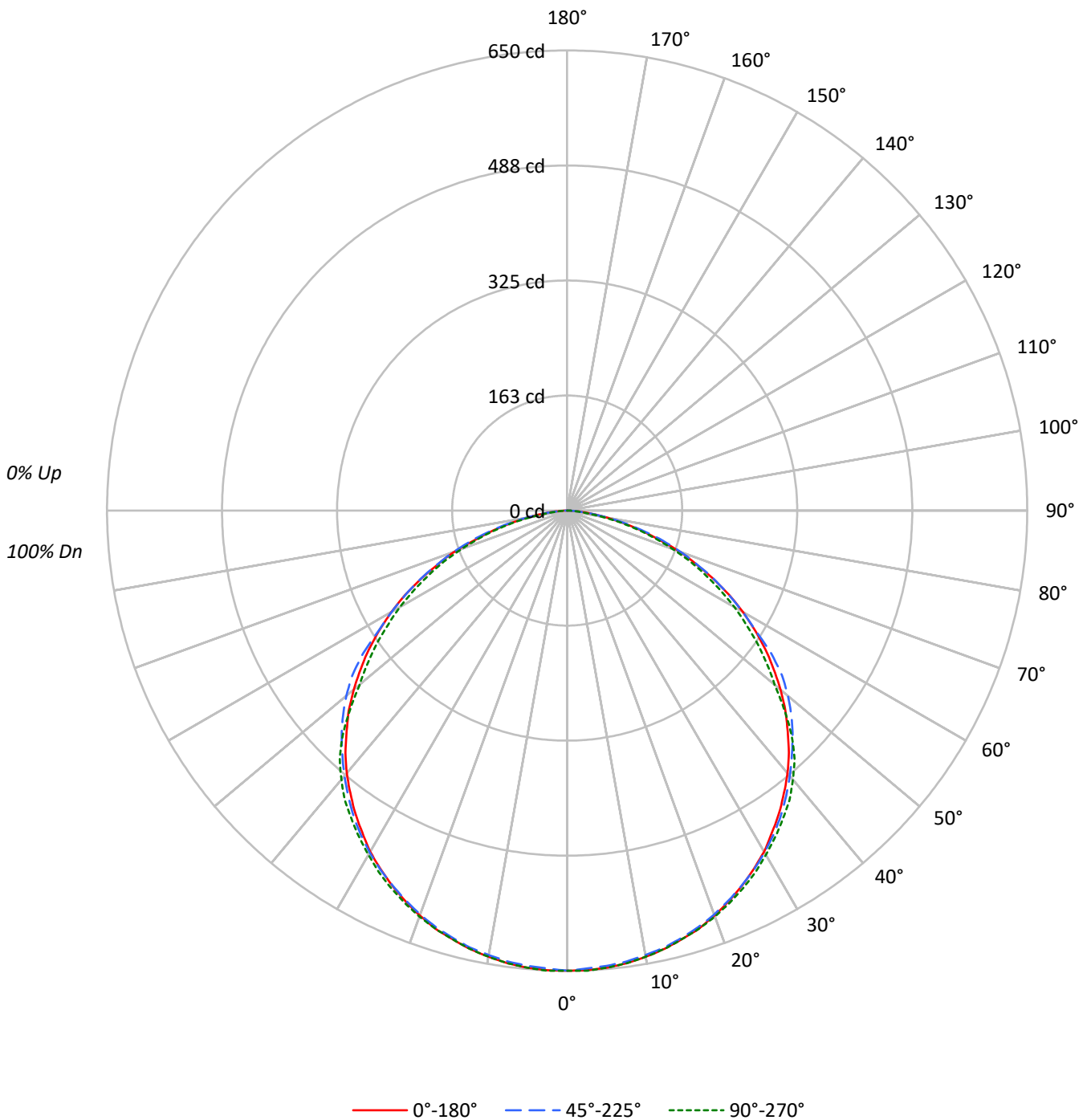
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1749	1749	1749
5°	1750	1744	1750
10°	1749	1742	1749
15°	1746	1741	1746
20°	1743	1739	1748
25°	1736	1734	1747
30°	1729	1733	1744
35°	1714	1729	1745
40°	1701	1719	1743
45°	1676	1714	1707
50°	1647	1704	1602
55°	1604	1651	1542
60°	1543	1540	1469
65°	1446	1454	1374
70°	1327	1342	1244
75°	1116	1168	1064
80°	885	903	748
85°	580	503	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.3
10°-20°	176.9	9.6
20°-30°	270.1	14.6
30°-40°	329.6	17.8
40°-50°	344.6	18.6
50°-60°	305.1	16.5
60°-70°	224.7	12.1
70°-80°	116.3	6.3
80°-90°	23.2	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°	508.6	27.5
0°-40°	838.1	45.3
0°-60°	1487.8	80.3
0°-90°	1852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	648	648	646	648	648	62
15°	627	627	625	627	627	177
25°	585	585	584	588	588	270
35°	522	523	526	531	531	326
45°	440	444	450	454	448	340
55°	342	349	352	334	329	305
65°	227	241	228	220	216	225
75°	107	115	112	105	102	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°	649.9	649.9	649.9	649.9	649.9
2.5°	649.9	649.9	647.4	649.9	650.5
5°	648.0	648.0	645.5	648.0	648.0
7.5°	644.9	644.3	642.4	644.9	644.9
10°	639.9	639.9	637.4	640.5	639.9
12.5°	634.2	633.6	632.3	634.8	634.2
15°	626.7	626.7	624.8	627.3	626.7
17.5°	619.2	618.5	616.7	619.2	619.2
20°	608.5	607.9	607.2	609.8	610.4
22.5°	597.2	596.6	596.0	599.7	599.7
25°	584.7	584.7	584.0	587.8	588.4
27.5°	570.9	570.9	571.5	576.5	575.9
30°	556.4	556.4	557.7	561.4	561.4
32.5°	538.9	540.1	542.6	547.0	547.0
35°	521.9	523.2	526.3	531.3	531.3
37.5°	503.1	505.0	508.1	514.4	515.7
40°	484.3	485.5	489.3	496.2	496.2
42.5°	463.6	464.8	469.9	476.8	475.5
45°	440.4	444.1	450.4	454.2	448.5
47.5°	418.4	420.9	429.7	425.3	415.9
50°	393.3	398.3	407.1	391.4	382.7
52.5°	367.6	373.3	382.7	360.7	355.7
55°	341.9	348.8	351.9	333.7	328.7
57.5°	314.3	321.8	315.5	304.9	299.9
60°	286.7	295.5	286.1	276.0	272.9
62.5°	257.8	267.9	257.2	248.4	244.0
65°	227.1	240.9	228.3	219.6	215.8
67.5°	197.0	211.4	198.2	190.7	188.2
70°	168.7	176.9	170.6	163.1	158.1
72.5°	134.9	143.0	141.8	133.6	130.5
75°	107.3	114.8	112.3	105.4	102.3
77.5°	79.7	87.8	85.3	77.2	75.9
80°	57.1	62.7	58.3	50.8	48.3
82.5°	35.8	40.1	34.5	28.9	27.6
85°	18.8	20.1	16.3	14.4	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)