

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: P258567

Luminaire Tested: **14CZ-LD5-20-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-UNV-L93050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1792.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

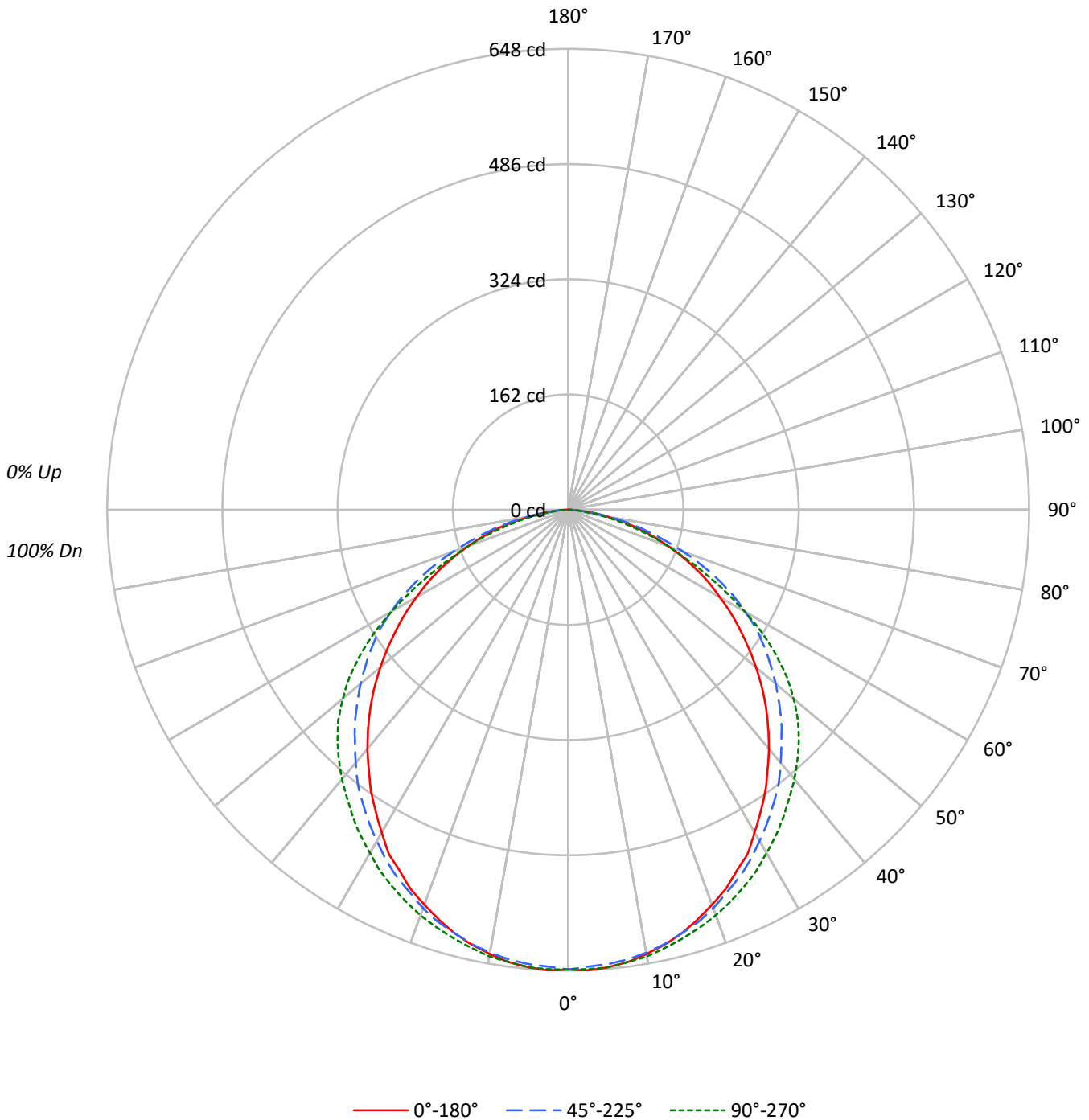
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1740	1740	1740
5°	1744	1733	1744
10°	1733	1728	1743
15°	1718	1718	1738
20°	1692	1708	1738
25°	1663	1692	1736
30°	1628	1672	1732
35°	1587	1654	1733
40°	1542	1632	1738
45°	1496	1614	1745
50°	1442	1594	1731
55°	1384	1579	1674
60°	1327	1545	1540
65°	1266	1479	1350
70°	1175	1349	1168
75°	1066	1176	965
80°	849	931	711
85°	599	519	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.4
10°-20°	174.8	9.8
20°-30°	263.6	14.7
30°-40°	315.9	17.6
40°-50°	327.8	18.3
50°-60°	295.7	16.5
60°-70°	215.7	12.0
70°-80°	113.2	6.3
80°-90°	24.1	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°	499.5	27.9
0°-40°	815.4	45.5
0°-60°	1439.0	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°	647	647	647	647	647	
5°	646	644	641	646	646	61
15°	617	617	617	624	624	174
25°	560	563	570	582	585	258
35°	483	488	504	522	527	302
45°	393	401	424	450	458	303
55°	295	306	337	359	357	264
65°	199	210	232	224	212	196
75°	102	117	113	98	93	107
85°	19	24	17	14	13	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.7	646.7	646.7	646.7	646.7
2.5°	648.4	646.7	643.1	646.7	646.7
5°	645.8	644.0	641.4	645.8	645.8
7.5°	641.4	639.6	637.8	642.3	641.4
10°	634.3	633.4	632.5	637.8	637.8
12.5°	626.4	626.4	625.5	631.7	630.8
15°	616.6	616.6	616.6	623.7	623.7
17.5°	604.3	606.0	607.8	615.8	615.8
20°	591.0	592.8	596.3	606.0	606.9
22.5°	577.8	578.7	582.2	593.7	596.3
25°	560.1	562.8	569.8	582.2	584.8
27.5°	546.0	546.9	554.8	568.9	572.5
30°	523.9	530.1	538.0	553.9	557.5
32.5°	503.6	508.9	521.2	538.0	543.3
35°	483.2	488.5	503.6	522.1	527.4
37.5°	460.3	468.2	485.9	504.4	510.6
40°	439.1	446.1	464.7	487.7	494.7
42.5°	416.1	423.2	443.5	469.1	477.1
45°	393.1	401.1	424.1	449.7	458.5
47.5°	369.3	378.1	402.0	430.2	438.2
50°	344.5	354.3	380.8	409.9	413.5
52.5°	319.8	330.4	358.7	384.3	387.8
55°	295.1	305.7	336.6	358.7	356.9
57.5°	271.2	282.7	314.5	326.0	324.2
60°	246.5	258.8	287.1	292.4	286.2
62.5°	223.5	235.0	261.5	257.1	249.1
65°	198.8	210.3	232.3	223.5	212.0
67.5°	174.0	188.2	202.3	187.3	178.5
70°	149.3	165.2	171.4	156.4	148.4
72.5°	125.4	142.2	140.5	125.4	120.1
75°	102.5	116.6	113.1	98.1	92.8
77.5°	77.7	93.6	85.7	73.3	68.9
80°	54.8	68.9	60.1	49.5	45.9
82.5°	36.2	45.9	37.1	29.2	26.5
85°	19.4	23.9	16.8	14.1	13.3
87.5°	8.0	7.1	6.2	6.2	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)