

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: P275450

Luminaire Tested: **14CZ2-20-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2030.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

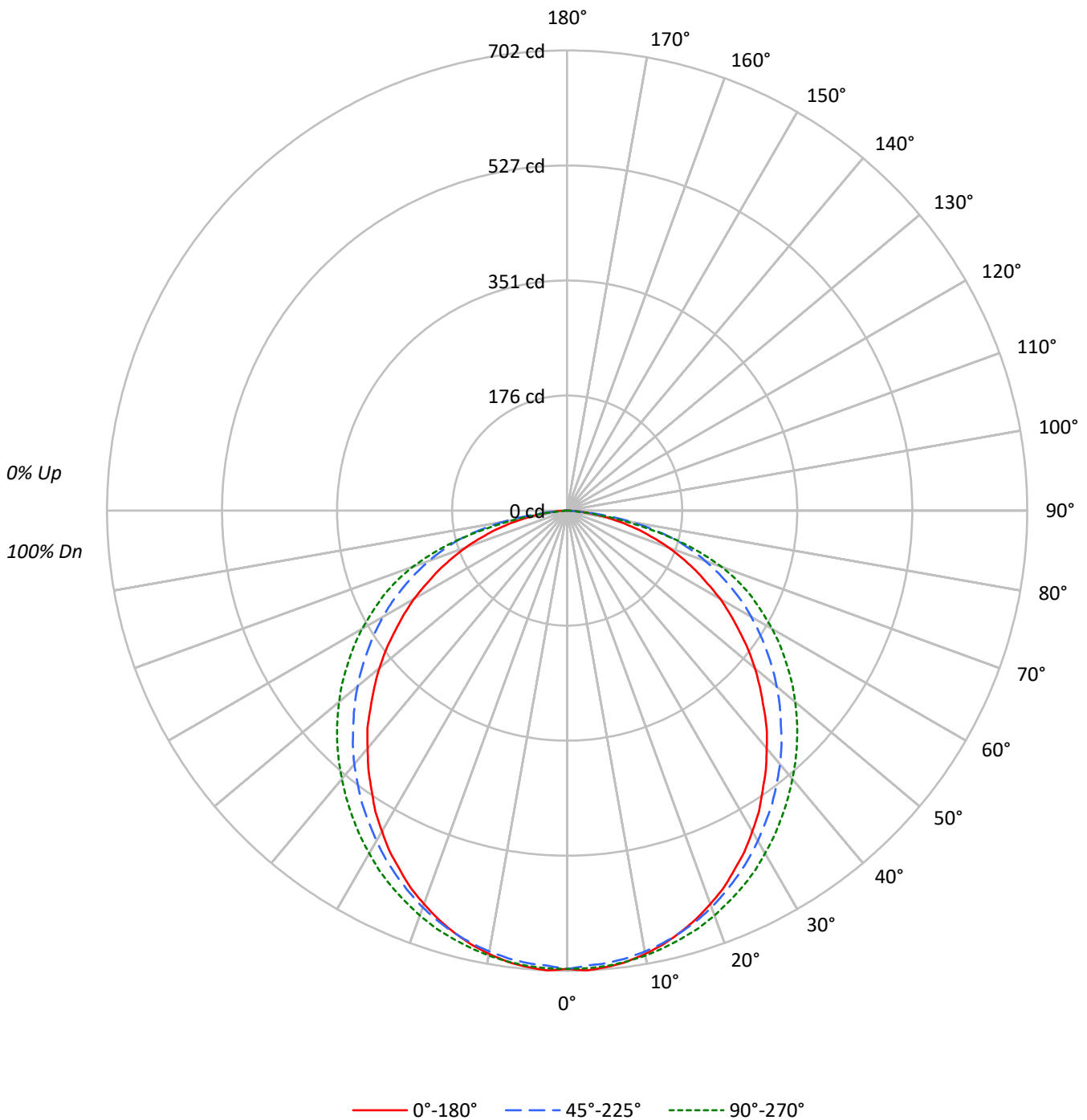
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1882	1882	1882
5°	1888	1872	1883
10°	1876	1866	1884
15°	1856	1858	1883
20°	1829	1844	1882
25°	1794	1826	1880
30°	1755	1808	1876
35°	1709	1792	1875
40°	1663	1775	1878
45°	1612	1755	1888
50°	1565	1747	1901
55°	1506	1742	1917
60°	1452	1744	1944
65°	1378	1750	1975
70°	1293	1763	1973
75°	1172	1779	1784
80°	961	1536	1269
85°	713	726	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.3
10°-20°	189.0	9.3
20°-30°	284.8	14.0
30°-40°	341.7	16.8
40°-50°	356.2	17.5
50°-60°	329.7	16.2
60°-70°	266.4	13.1
70°-80°	162.4	8.0
80°-90°	33.5	1.7
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°	540.0	26.6
0°-40°	881.7	43.4
0°-60°	1567.6	77.2
0°-90°	2030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	699	697	693	698	697	66
15°	666	667	667	676	676	188
25°	604	608	615	630	633	279
35°	520	528	545	565	571	326
45°	424	436	461	487	496	327
55°	321	338	371	400	409	288
65°	216	238	275	302	310	214
75°	113	138	171	174	172	118
85°	23	34	24	13	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	699.3	699.3	699.3	699.3	699.3
2.5°	702.1	699.8	694.8	699.8	698.9
5°	698.9	697.1	693.0	698.0	697.1
7.5°	694.4	692.6	688.9	694.8	693.9
10°	686.7	685.8	683.0	689.8	689.4
12.5°	677.6	677.2	675.8	683.5	683.0
15°	666.3	666.8	666.8	675.8	675.8
17.5°	653.6	654.5	656.3	666.3	667.7
20°	638.7	640.5	644.1	655.4	657.2
22.5°	623.3	624.7	630.1	643.7	645.5
25°	604.3	607.9	615.1	630.5	633.3
27.5°	586.2	589.3	599.3	615.1	619.7
30°	564.9	569.9	581.7	598.9	603.8
32.5°	544.5	550.0	563.5	583.5	588.0
35°	520.1	528.2	545.4	565.4	570.8
37.5°	497.9	505.6	525.1	546.8	553.1
40°	473.5	483.0	505.2	528.2	534.6
42.5°	450.8	459.9	483.9	507.4	516.0
45°	423.7	436.4	461.2	487.0	496.1
47.5°	398.8	411.5	440.0	467.6	475.7
50°	373.9	387.5	417.3	445.9	454.0
52.5°	348.1	362.6	394.7	423.2	432.7
55°	320.9	337.7	371.2	400.1	408.7
57.5°	295.1	312.3	348.1	377.5	386.1
60°	269.8	287.4	324.1	352.2	361.2
62.5°	241.7	262.5	300.6	328.2	335.0
65°	216.4	237.6	274.8	302.4	310.1
67.5°	189.7	212.7	249.9	275.2	282.5
70°	164.3	188.3	224.1	247.6	250.8
72.5°	137.2	161.6	197.8	212.7	212.7
75°	112.7	137.6	171.1	173.8	171.6
77.5°	86.0	113.6	135.3	129.9	124.5
80°	62.0	89.2	99.1	89.2	81.9
82.5°	41.6	64.7	59.7	47.5	42.1
85°	23.1	34.4	23.5	13.1	9.5
87.5°	8.6	7.7	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)