

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: P275868

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1976.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

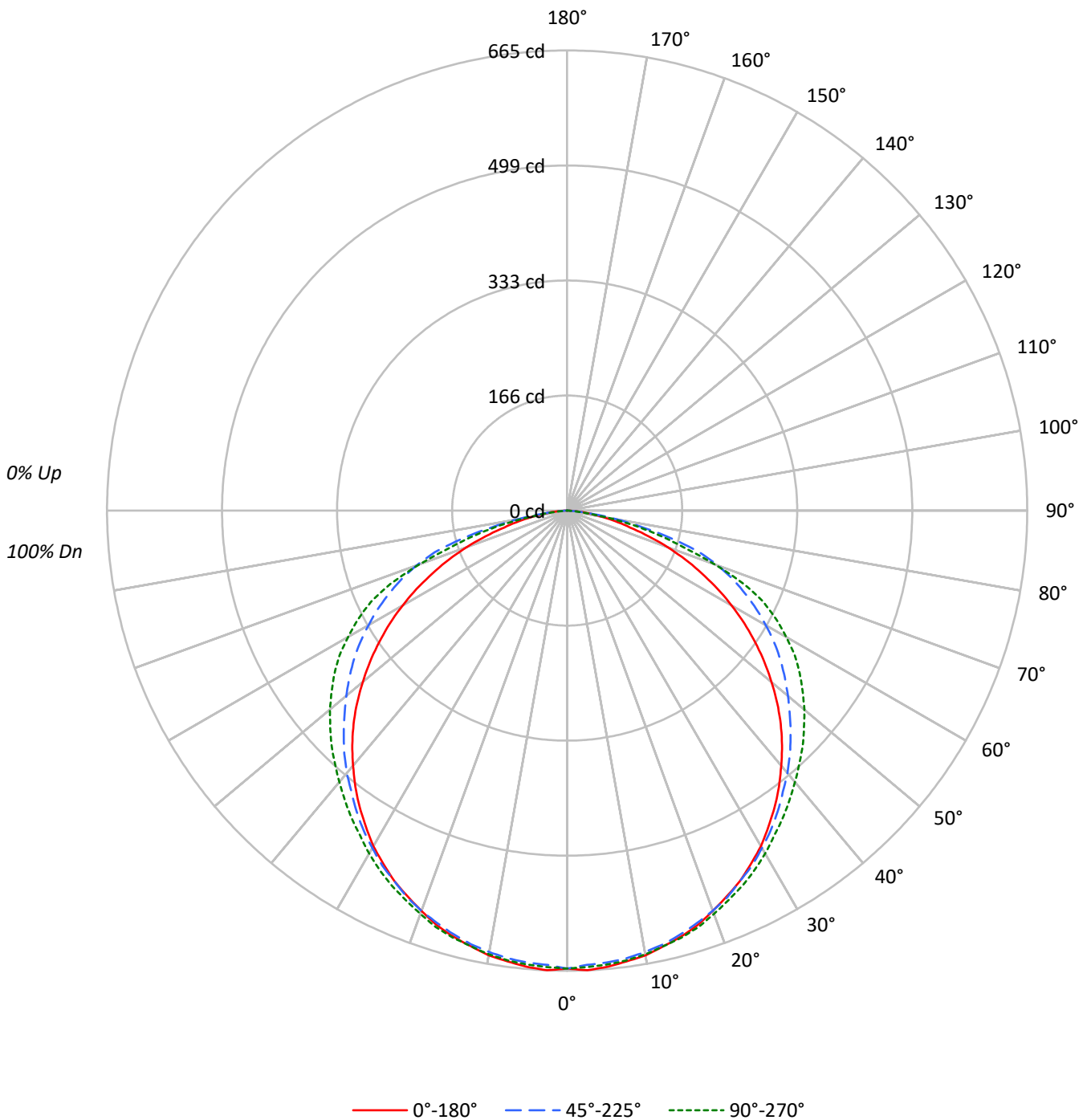
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1781	1781	1781
5°	1788	1771	1779
10°	1783	1770	1779
15°	1775	1766	1779
20°	1763	1763	1776
25°	1754	1754	1777
30°	1740	1750	1778
35°	1718	1743	1784
40°	1691	1740	1799
45°	1662	1738	1832
50°	1615	1744	1873
55°	1556	1766	1925
60°	1478	1785	1968
65°	1365	1808	1994
70°	1214	1821	1784
75°	978	1637	1428
80°	766	1147	933
85°	525	333	238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	3.2
10°-20°	179.7	9.1
20°-30°	273.7	13.8
30°-40°	333.3	16.9
40°-50°	353.6	17.9
50°-60°	333.7	16.9
60°-70°	269.5	13.6
70°-80°	146.2	7.4
80°-90°	23.7	1.2
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°	516.0	26.1
0°-40°	849.3	43.0
0°-60°	1536.7	77.8
0°-90°	1976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	662	660	656	660	659	63
15°	637	636	634	639	639	180
25°	591	589	591	597	599	272
35°	523	526	531	542	543	327
45°	437	443	457	474	481	336
55°	332	346	376	401	410	296
65°	214	241	284	307	313	212
75°	94	137	157	142	137	103
85°	17	18	11	9	8	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.8	661.8	661.8	661.8	661.8
2.5°	664.9	661.8	657.2	661.8	660.3
5°	661.8	660.3	655.6	660.3	658.7
7.5°	657.2	657.2	652.6	655.6	655.6
10°	652.6	651.0	647.9	652.6	651.0
12.5°	644.8	643.3	641.8	646.4	644.8
15°	637.1	635.6	634.0	638.7	638.7
17.5°	627.9	626.3	624.8	631.0	631.0
20°	615.5	615.5	615.5	621.7	620.2
22.5°	603.2	603.2	604.7	610.9	609.4
25°	590.8	589.3	590.8	597.0	598.6
27.5°	575.4	577.0	578.5	584.7	586.2
30°	560.0	561.5	563.1	570.8	572.3
32.5°	541.5	544.6	547.7	556.9	556.9
35°	523.0	526.1	530.7	541.5	543.0
37.5°	502.9	506.0	512.2	524.5	527.6
40°	481.3	485.9	495.2	507.5	512.2
42.5°	459.7	465.9	476.7	490.6	496.7
45°	436.6	442.8	456.6	473.6	481.3
47.5°	411.9	419.6	436.6	458.2	464.3
50°	385.7	396.5	416.5	439.7	447.4
52.5°	359.4	371.8	396.5	421.2	428.9
55°	331.7	345.6	376.4	401.1	410.4
57.5°	303.9	319.3	354.8	381.0	390.3
60°	274.6	293.1	331.7	357.9	365.6
62.5°	245.3	266.9	308.5	334.8	340.9
65°	214.4	240.7	283.9	307.0	313.2
67.5°	185.1	216.0	259.2	276.1	276.1
70°	154.3	188.2	231.4	236.0	226.8
72.5°	123.4	162.0	200.5	183.6	175.9
75°	94.1	137.3	157.4	141.9	137.3
77.5°	71.0	111.1	111.1	101.8	98.7
80°	49.4	84.8	74.0	64.8	60.2
82.5°	32.4	47.8	38.6	30.9	26.2
85°	17.0	18.5	10.8	9.3	7.7
87.5°	6.2	3.1	1.5	3.1	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)