

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: P275863

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275863
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: 14CZ2-29-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1754.0 lumens
Efficiency: N/A
Efficacy: 77.0 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

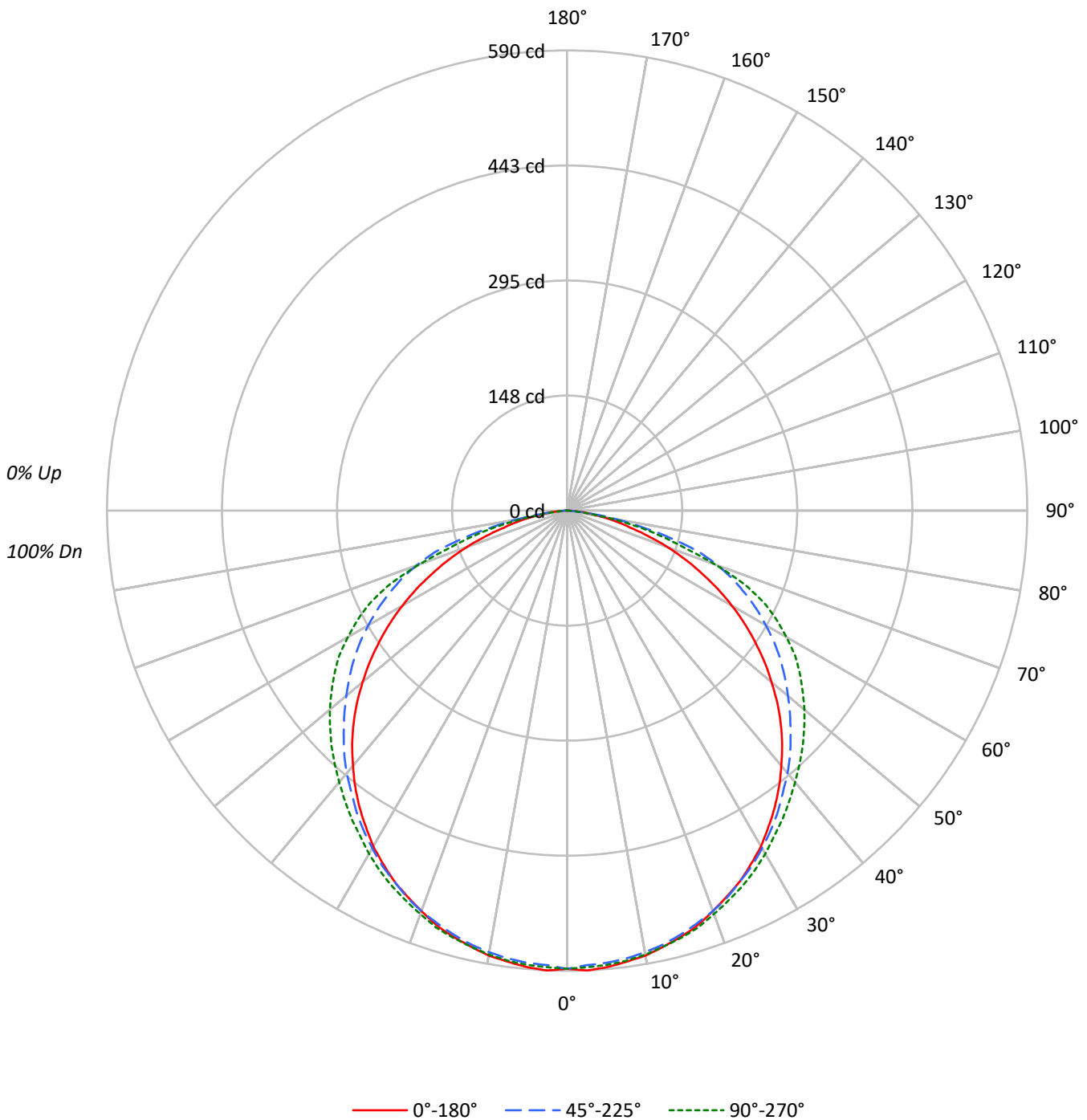
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1581	1581	1581
5°	1587	1572	1579
10°	1583	1571	1579
15°	1575	1568	1579
20°	1565	1565	1576
25°	1557	1557	1578
30°	1545	1553	1578
35°	1525	1548	1583
40°	1501	1544	1597
45°	1475	1542	1626
50°	1433	1548	1662
55°	1381	1567	1709
60°	1312	1584	1746
65°	1212	1605	1770
70°	1077	1616	1584
75°	868	1452	1267
80°	679	1018	828
85°	466	296	210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	3.2
10°-20°	159.5	9.1
20°-30°	242.9	13.8
30°-40°	295.9	16.9
40°-50°	313.9	17.9
50°-60°	296.2	16.9
60°-70°	239.2	13.6
70°-80°	129.8	7.4
80°-90°	21.0	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°	458.1	26.1
0°-40°	753.9	43.0
0°-60°	1364.0	77.8
0°-90°	1754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	588	586	582	586	585	56
15°	566	564	563	567	567	160
25°	524	523	524	530	531	241
35°	464	467	471	481	482	290
45°	388	393	405	420	427	298
55°	294	307	334	356	364	263
65°	190	214	252	272	278	189
75°	84	122	140	126	122	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.5	587.5	587.5	587.5	587.5
2.5°	590.2	587.5	583.4	587.5	586.1
5°	587.5	586.1	582.0	586.1	584.7
7.5°	583.4	583.4	579.2	582.0	582.0
10°	579.2	577.9	575.1	579.2	577.9
12.5°	572.4	571.0	569.7	573.8	572.4
15°	565.5	564.2	562.8	566.9	566.9
17.5°	557.3	556.0	554.6	560.1	560.1
20°	546.4	546.4	546.4	551.9	550.5
22.5°	535.4	535.4	536.8	542.3	540.9
25°	524.5	523.1	524.5	529.9	531.3
27.5°	510.8	512.1	513.5	519.0	520.4
30°	497.1	498.5	499.8	506.7	508.0
32.5°	480.6	483.4	486.1	494.3	494.3
35°	464.2	467.0	471.1	480.6	482.0
37.5°	446.4	449.2	454.6	465.6	468.3
40°	427.2	431.4	439.6	450.5	454.6
42.5°	408.1	413.5	423.1	435.5	440.9
45°	387.5	393.0	405.3	420.4	427.2
47.5°	365.6	372.5	387.5	406.7	412.2
50°	342.3	351.9	369.7	390.3	397.1
52.5°	319.1	330.0	351.9	373.8	380.7
55°	294.4	306.7	334.1	356.0	364.3
57.5°	269.8	283.5	315.0	338.2	346.5
60°	243.7	260.2	294.4	317.7	324.5
62.5°	217.7	236.9	273.9	297.2	302.6
65°	190.3	213.6	252.0	272.5	278.0
67.5°	164.3	191.7	230.1	245.1	245.1
70°	136.9	167.1	205.4	209.5	201.3
72.5°	109.5	143.8	178.0	163.0	156.1
75°	83.5	121.9	139.7	126.0	121.9
77.5°	63.0	98.6	98.6	90.4	87.6
80°	43.8	75.3	65.7	57.5	53.4
82.5°	28.8	42.5	34.2	27.4	23.3
85°	15.1	16.4	9.6	8.2	6.8
87.5°	5.5	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)