

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: P275865

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275865  
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-2700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1753.0 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

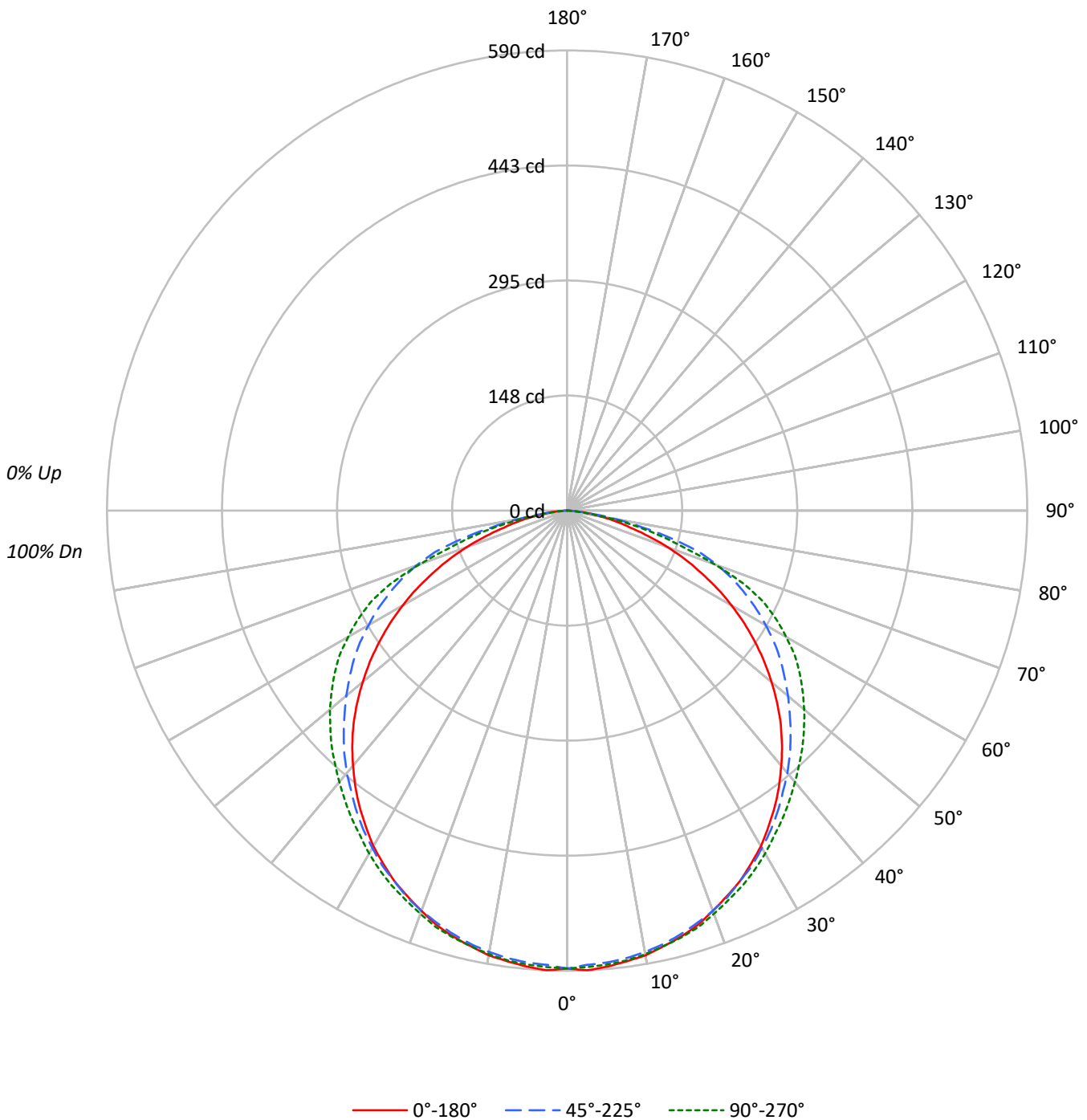
Input Watts (W): 27.342  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1580	1580	1580
5°	1586	1571	1579
10°	1582	1571	1578
15°	1575	1567	1578
20°	1564	1564	1576
25°	1556	1556	1577
30°	1544	1552	1578
35°	1524	1547	1582
40°	1500	1543	1596
45°	1474	1542	1625
50°	1432	1547	1662
55°	1380	1567	1708
60°	1311	1583	1746
65°	1211	1603	1769
70°	1077	1615	1583
75°	868	1451	1266
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°	159.4	9.1
20°-30°	242.8	13.8
30°-40°	295.7	16.9
40°-50°	313.7	17.9
50°-60°	296.1	16.9
60°-70°	239.1	13.6
70°-80°	129.7	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°	457.8	26.1
0°-40°	753.5	43.0
0°-60°	1363.3	77.8
0°-90°	1753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	587	586	582	586	584	56
15°	565	564	562	567	567	159
25°	524	523	524	530	531	241
35°	464	467	471	480	482	290
45°	387	393	405	420	427	298
55°	294	307	334	356	364	263
65°	190	214	252	272	278	188
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°	587.1	587.1	587.1	587.1	587.1
2.5°	589.9	587.1	583.0	587.1	585.8
5°	587.1	585.8	581.7	585.8	584.4
7.5°	583.0	583.0	578.9	581.7	581.7
10°	578.9	577.5	574.8	578.9	577.5
12.5°	572.1	570.7	569.3	573.4	572.1
15°	565.2	563.9	562.5	566.6	566.6
17.5°	557.0	555.6	554.3	559.8	559.8
20°	546.1	546.1	546.1	551.5	550.2
22.5°	535.1	535.1	536.5	542.0	540.6
25°	524.2	522.8	524.2	529.6	531.0
27.5°	510.5	511.9	513.2	518.7	520.1
30°	496.8	498.2	499.5	506.4	507.7
32.5°	480.4	483.1	485.8	494.1	494.1
35°	464.0	466.7	470.8	480.4	481.7
37.5°	446.2	448.9	454.4	465.3	468.1
40°	427.0	431.1	439.3	450.3	454.4
42.5°	407.8	413.3	422.9	435.2	440.7
45°	387.3	392.8	405.1	420.2	427.0
47.5°	365.4	372.3	387.3	406.5	411.9
50°	342.1	351.7	369.5	390.0	396.9
52.5°	318.9	329.8	351.7	373.6	380.5
55°	294.2	306.6	333.9	355.8	364.0
57.5°	269.6	283.3	314.8	338.0	346.3
60°	243.6	260.0	294.2	317.5	324.4
62.5°	217.6	236.8	273.7	297.0	302.5
65°	190.2	213.5	251.8	272.3	277.8
67.5°	164.2	191.6	229.9	245.0	245.0
70°	136.9	167.0	205.3	209.4	201.2
72.5°	109.5	143.7	177.9	162.9	156.0
75°	83.5	121.8	139.6	125.9	121.8
77.5°	63.0	98.5	98.5	90.3	87.6
80°	43.8	75.3	65.7	57.5	53.4
82.5°	28.7	42.4	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)