

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: P275847

Luminaire Tested: **14CZ2-25-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275847  
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: 14CZ2-25-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: 1220.0 lumens  
Efficiency: N/A  
Efficacy: 66.9 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

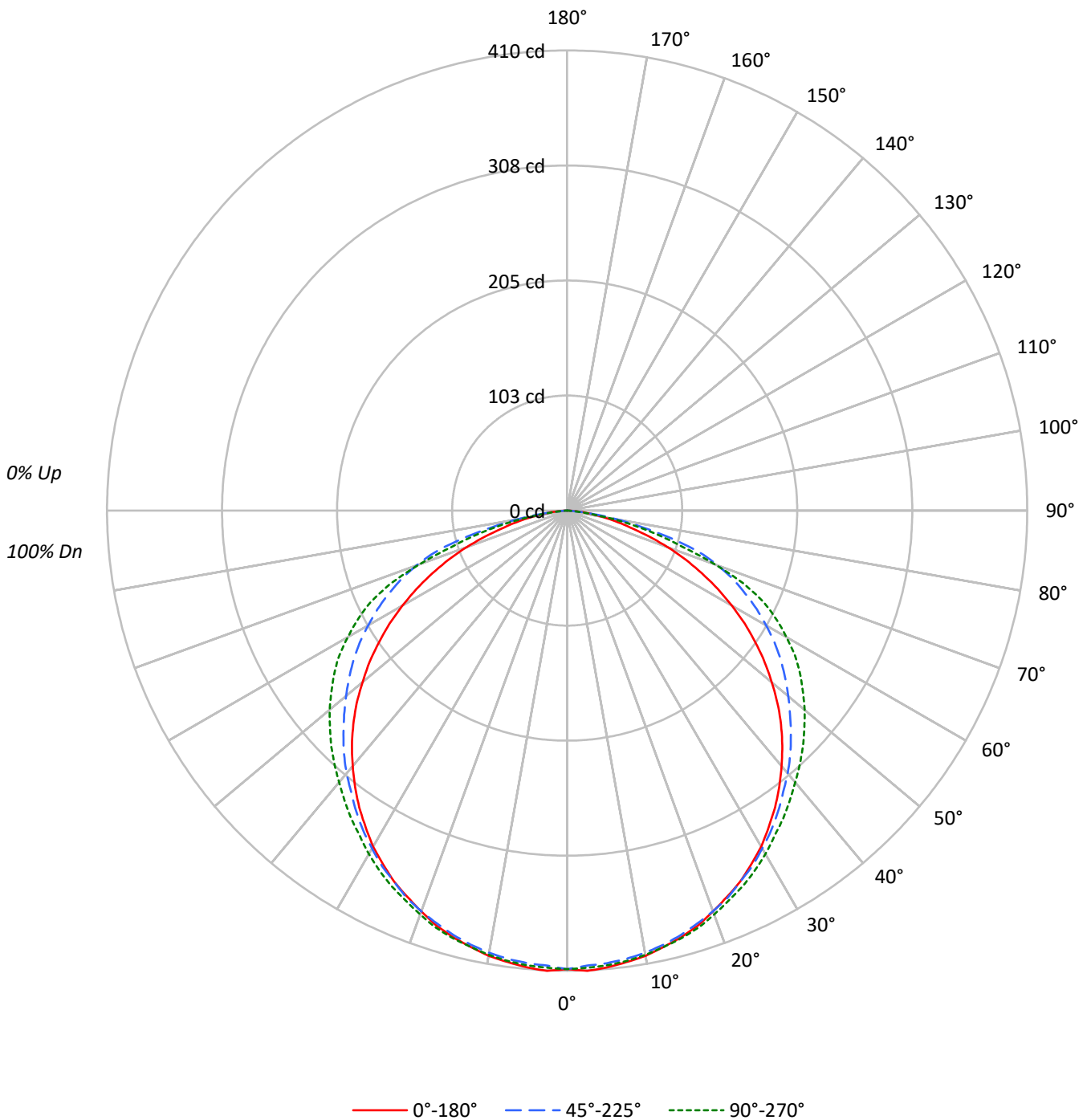
Input Watts (W): 18.228  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1100	1100	1100
5°	1104	1093	1099
10°	1101	1093	1098
15°	1096	1091	1098
20°	1088	1088	1097
25°	1083	1083	1097
30°	1074	1080	1098
35°	1061	1076	1101
40°	1044	1074	1111
45°	1026	1073	1131
50°	997	1077	1156
55°	961	1090	1189
60°	912	1102	1215
65°	843	1116	1231
70°	749	1124	1102
75°	604	1011	882
80°	473	708	575
85°	324	207	148



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.7	3.2
10°-20°	111.0	9.1
20°-30°	169.0	13.8
30°-40°	205.8	16.9
40°-50°	218.3	17.9
50°-60°	206.1	16.9
60°-70°	166.4	13.6
70°-80°	90.3	7.4
80°-90°	14.6	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°	318.6	26.1
0°-40°	524.4	43.0
0°-60°	948.8	77.8
0°-90°	1220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1220.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	409	408	405	408	407	39
15°	393	392	392	394	394	111
25°	365	364	365	369	370	168
35°	323	325	328	334	335	202
45°	270	273	282	292	297	208
55°	205	213	232	248	253	183
65°	132	149	175	190	193	131
75°	58	85	97	88	85	63
85°	10	11	7	6	5	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	408.6	408.6	408.6	408.6	408.6
2.5°	410.5	408.6	405.8	408.6	407.7
5°	408.6	407.7	404.8	407.7	406.7
7.5°	405.8	405.8	402.9	404.8	404.8
10°	402.9	401.9	400.0	402.9	401.9
12.5°	398.1	397.2	396.2	399.1	398.1
15°	393.4	392.4	391.5	394.3	394.3
17.5°	387.7	386.7	385.7	389.6	389.6
20°	380.0	380.0	380.0	383.8	382.9
22.5°	372.4	372.4	373.4	377.2	376.2
25°	364.8	363.8	364.8	368.6	369.6
27.5°	355.3	356.2	357.2	361.0	361.9
30°	345.7	346.7	347.7	352.4	353.4
32.5°	334.3	336.2	338.1	343.8	343.8
35°	322.9	324.8	327.6	334.3	335.3
37.5°	310.5	312.4	316.2	323.8	325.7
40°	297.2	300.0	305.7	313.4	316.2
42.5°	283.8	287.6	294.3	302.9	306.7
45°	269.5	273.4	281.9	292.4	297.2
47.5°	254.3	259.1	269.5	282.9	286.7
50°	238.1	244.8	257.2	271.5	276.2
52.5°	221.9	229.5	244.8	260.0	264.8
55°	204.8	213.4	232.4	247.6	253.4
57.5°	187.6	197.2	219.1	235.3	241.0
60°	169.5	181.0	204.8	221.0	225.7
62.5°	151.4	164.8	190.5	206.7	210.5
65°	132.4	148.6	175.3	189.5	193.4
67.5°	114.3	133.3	160.0	170.5	170.5
70°	95.2	116.2	142.9	145.7	140.0
72.5°	76.2	100.0	123.8	113.3	108.6
75°	58.1	84.8	97.2	87.6	84.8
77.5°	43.8	68.6	68.6	62.9	61.0
80°	30.5	52.4	45.7	40.0	37.1
82.5°	20.0	29.5	23.8	19.0	16.2
85°	10.5	11.4	6.7	5.7	4.8
87.5°	3.8	1.9	1.0	1.9	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)