

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: P275838

Luminaire Tested: **14CZ2-20-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275838  
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: 14CZ2-20-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: 1045.0 lumens  
Efficiency: N/A  
Efficacy: 68.1 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

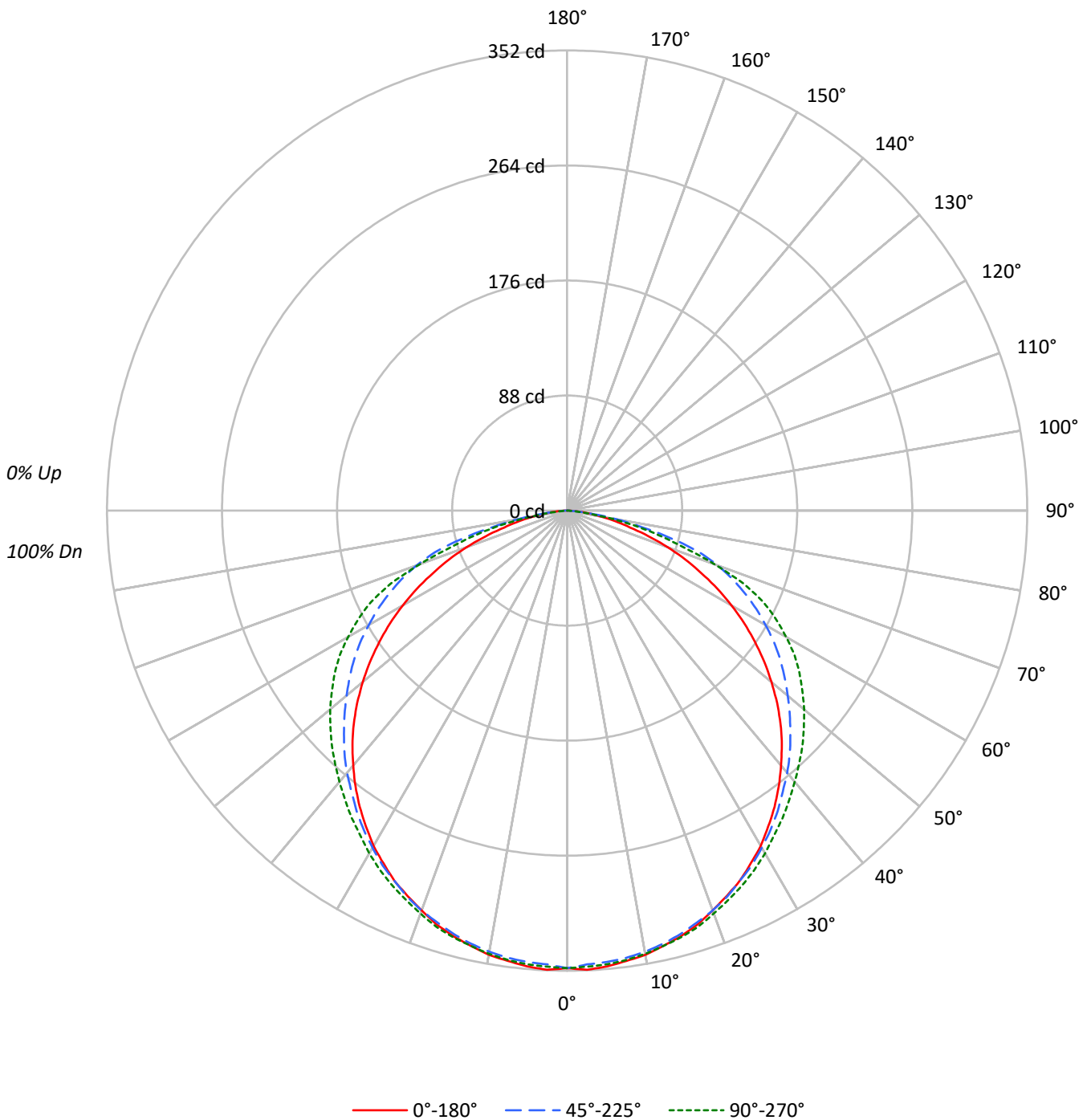
Input Watts (W): 15.345  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	942	942	942
5°	945	937	941
10°	943	936	941
15°	939	934	941
20°	932	932	939
25°	928	928	940
30°	920	925	941
35°	909	922	943
40°	894	920	952
45°	879	919	969
50°	854	922	991
55°	823	934	1018
60°	781	944	1041
65°	722	956	1054
70°	642	963	943
75°	518	865	755
80°	404	607	493
85°	278	176	127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.1	3.2
10°-20°	95.0	9.1
20°-30°	144.7	13.8
30°-40°	176.3	16.9
40°-50°	187.0	17.9
50°-60°	176.5	16.9
60°-70°	142.5	13.6
70°-80°	77.3	7.4
80°-90°	12.5	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°	272.9	26.1
0°-40°	449.2	43.0
0°-60°	812.7	77.8
0°-90°	1045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	350	349	347	349	348	33
15°	337	336	335	338	338	95
25°	312	312	312	316	316	144
35°	277	278	281	286	287	173
45°	231	234	242	250	254	178
55°	175	183	199	212	217	157
65°	113	127	150	162	166	112
75°	50	73	83	75	73	54
85°	9	10	6	5	4	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	350.0	350.0	350.0	350.0	350.0
2.5°	351.6	350.0	347.5	350.0	349.2
5°	350.0	349.2	346.7	349.2	348.4
7.5°	347.5	347.5	345.1	346.7	346.7
10°	345.1	344.3	342.7	345.1	344.3
12.5°	341.0	340.2	339.4	341.8	341.0
15°	336.9	336.1	335.3	337.8	337.8
17.5°	332.0	331.2	330.4	333.7	333.7
20°	325.5	325.5	325.5	328.8	328.0
22.5°	319.0	319.0	319.8	323.1	322.3
25°	312.5	311.7	312.5	315.7	316.5
27.5°	304.3	305.1	305.9	309.2	310.0
30°	296.2	297.0	297.8	301.9	302.7
32.5°	286.4	288.0	289.6	294.5	294.5
35°	276.6	278.2	280.7	286.4	287.2
37.5°	266.0	267.6	270.9	277.4	279.0
40°	254.5	257.0	261.9	268.4	270.9
42.5°	243.1	246.4	252.1	259.4	262.7
45°	230.9	234.1	241.5	250.5	254.5
47.5°	217.8	221.9	230.9	242.3	245.6
50°	204.0	209.7	220.3	232.5	236.6
52.5°	190.1	196.6	209.7	222.7	226.8
55°	175.4	182.7	199.1	212.1	217.0
57.5°	160.7	168.9	187.6	201.5	206.4
60°	145.2	155.0	175.4	189.3	193.4
62.5°	129.7	141.1	163.2	177.0	180.3
65°	113.4	127.3	150.1	162.4	165.6
67.5°	97.9	114.2	137.1	146.0	146.0
70°	81.6	99.5	122.4	124.8	119.9
72.5°	65.3	85.7	106.1	97.1	93.0
75°	49.8	72.6	83.2	75.1	72.6
77.5°	37.5	58.7	58.7	53.8	52.2
80°	26.1	44.9	39.2	34.3	31.8
82.5°	17.1	25.3	20.4	16.3	13.9
85°	9.0	9.8	5.7	4.9	4.1
87.5°	3.3	1.6	0.8	1.6	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)