

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: P842805

Luminaire Tested: **14CZ2-20-RDP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-RDP-UNV-B50  
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

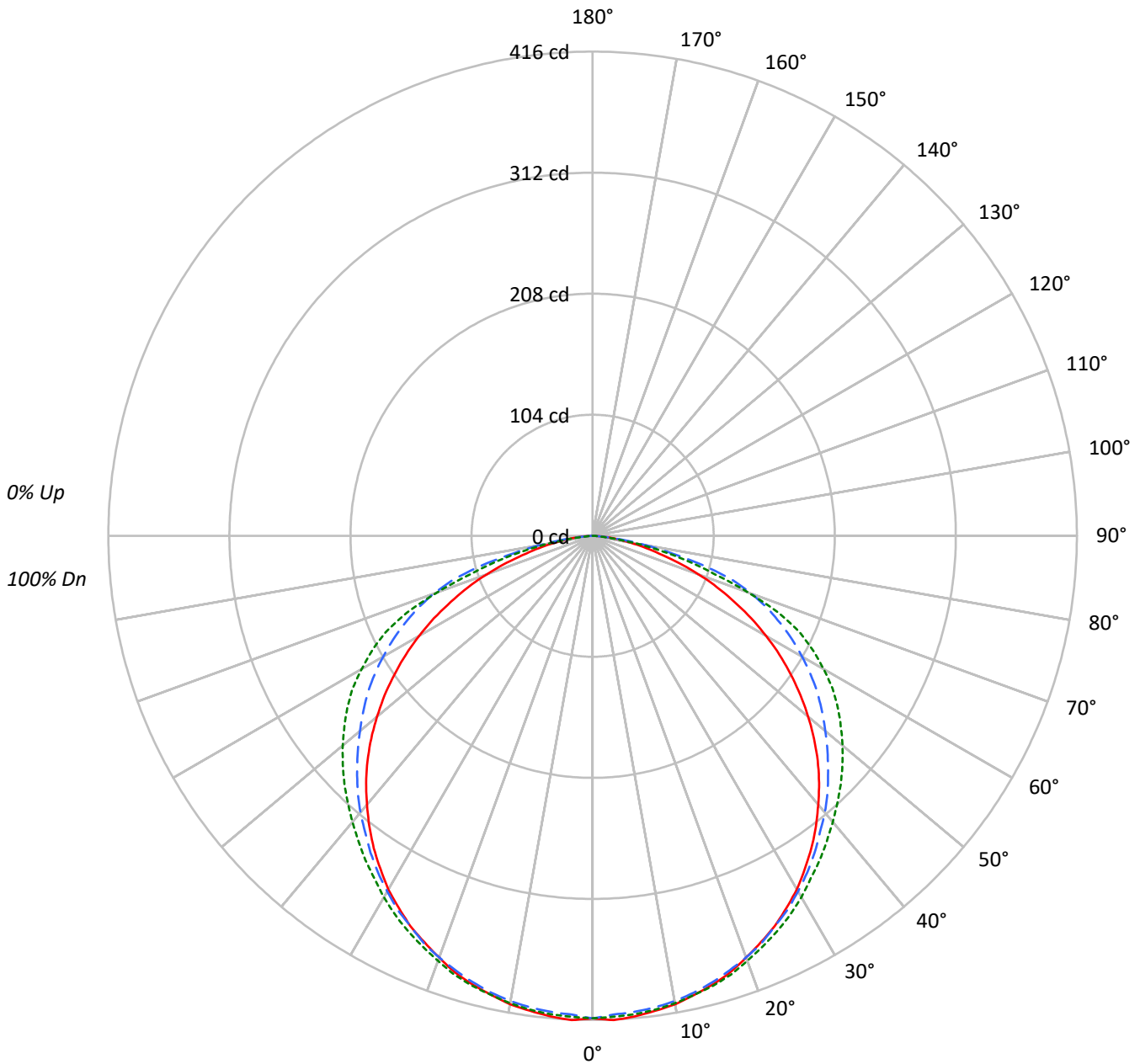
Lumens per Lamp: N/A  
Luminaire Lumens: 1238.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P842805

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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°	1170	1170	1170
5°	1175	1164	1169
10°	1172	1164	1169
15°	1166	1161	1169
20°	1158	1158	1167
25°	1153	1153	1168
30°	1144	1150	1169
35°	1129	1146	1172
40°	1111	1143	1182
45°	1092	1142	1204
50°	1061	1146	1231
55°	1023	1161	1265
60°	971	1173	1293
65°	897	1188	1310
70°	798	1197	1172
75°	643	1075	938
80°	502	754	613
85°	347	220	159



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.2	3.2
10°-20°	112.6	9.1
20°-30°	171.5	13.8
30°-40°	208.8	16.9
40°-50°	221.6	17.9
50°-60°	209.1	16.9
60°-70°	168.8	13.6
70°-80°	91.6	7.4
80°-90°	14.8	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°	323.3	26.1
0°-40°	532.1	43.0
0°-60°	962.8	77.8
0°-90°	1238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	415	414	411	414	413	39
15°	399	398	397	400	400	113
25°	370	369	370	374	375	170
35°	328	330	332	339	340	205
45°	274	277	286	297	302	211
55°	208	216	236	251	257	186
65°	134	151	178	192	196	133
75°	59	86	99	89	86	64
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	414.6	414.6	414.6	414.6	414.6
2.5°	416.5	414.6	411.7	414.6	413.7
5°	414.6	413.7	410.7	413.7	412.7
7.5°	411.7	411.7	408.8	410.7	410.7
10°	408.8	407.9	406.0	408.8	407.9
12.5°	404.0	403.0	402.1	404.9	404.0
15°	399.1	398.2	397.2	400.2	400.2
17.5°	393.3	392.4	391.4	395.3	395.3
20°	385.6	385.6	385.6	389.5	388.6
22.5°	377.9	377.9	378.9	382.8	381.8
25°	370.2	369.3	370.2	374.0	375.0
27.5°	360.5	361.4	362.4	366.3	367.3
30°	350.9	351.9	352.8	357.7	358.6
32.5°	339.3	341.2	343.1	348.9	348.9
35°	327.7	329.6	332.5	339.3	340.2
37.5°	315.1	317.0	320.9	328.6	330.5
40°	301.5	304.5	310.3	318.0	320.9
42.5°	288.0	291.9	298.7	307.3	311.2
45°	273.5	277.3	286.1	296.8	301.5
47.5°	258.0	262.9	273.5	287.1	291.0
50°	241.7	248.4	261.0	275.4	280.3
52.5°	225.2	232.9	248.4	263.8	268.7
55°	207.8	216.4	235.9	251.3	257.1
57.5°	190.4	200.1	222.2	238.7	244.5
60°	172.0	183.6	207.8	224.3	229.1
62.5°	153.7	167.2	193.3	209.7	213.6
65°	134.3	150.8	177.8	192.4	196.2
67.5°	116.0	135.3	162.4	173.0	173.0
70°	96.7	117.9	145.0	147.8	142.0
72.5°	77.4	101.5	125.7	115.0	110.2
75°	59.0	86.0	98.6	89.0	86.0
77.5°	44.4	69.5	69.5	63.7	61.8
80°	30.9	53.2	46.4	40.6	37.7
82.5°	20.3	30.0	24.2	19.3	16.5
85°	10.7	11.6	6.8	5.8	4.9
87.5°	3.9	1.9	0.9	1.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)