

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: P842804

Luminaire Tested: **14CZ2-20-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842804
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-B40
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

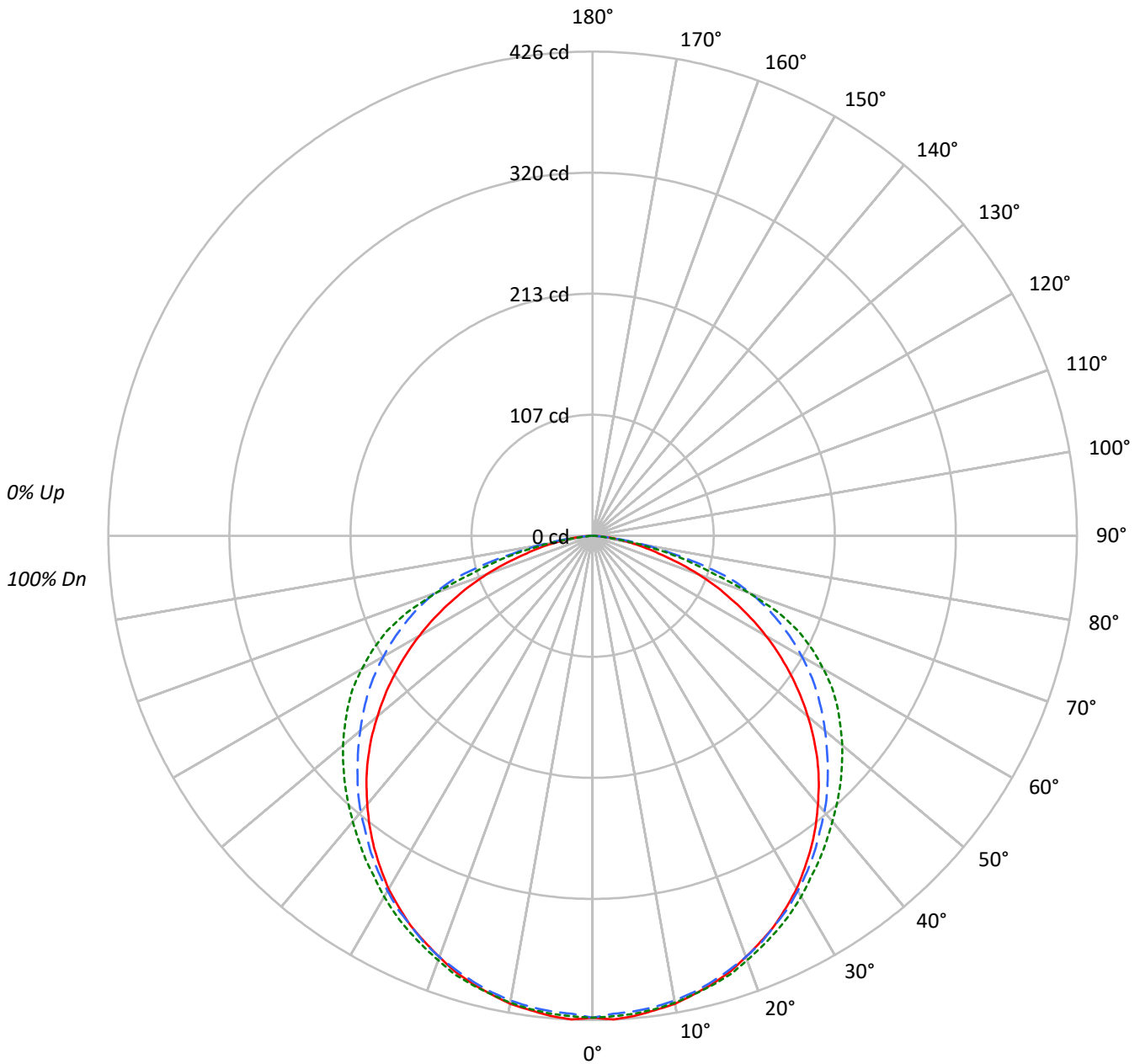
Lumens per Lamp: N/A
Luminaire Lumens: 1266.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (A_{in}): 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									
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°	1197	1197	1197
5°	1201	1190	1196
10°	1198	1190	1196
15°	1193	1187	1196
20°	1184	1184	1194
25°	1179	1179	1194
30°	1169	1176	1195
35°	1155	1172	1199
40°	1136	1169	1209
45°	1117	1168	1231
50°	1085	1172	1259
55°	1046	1187	1294
60°	993	1200	1323
65°	918	1214	1340
70°	816	1224	1199
75°	658	1099	960
80°	514	772	626
85°	353	223	162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	3.2
10°-20°	115.1	9.1
20°-30°	175.3	13.8
30°-40°	213.6	16.9
40°-50°	226.6	17.9
50°-60°	213.8	16.9
60°-70°	172.6	13.6
70°-80°	93.7	7.4
80°-90°	15.2	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°	330.6	26.1
0°-40°	544.2	43.0
0°-60°	984.5	77.8
0°-90°	1266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	424	423	420	423	422	40
15°	408	407	406	409	409	115
25°	379	378	379	382	383	174
35°	335	337	340	347	348	210
45°	280	284	293	304	308	215
55°	212	221	241	257	263	190
65°	137	154	182	197	201	136
75°	60	88	101	91	88	66
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°	424.0	424.0	424.0	424.0	424.0
2.5°	426.0	424.0	421.0	424.0	423.1
5°	424.0	423.1	420.0	423.1	422.1
7.5°	421.0	421.0	418.1	420.0	420.0
10°	418.1	417.1	415.2	418.1	417.1
12.5°	413.1	412.1	411.2	414.1	413.1
15°	408.1	407.2	406.2	409.2	409.2
17.5°	402.2	401.2	400.3	404.3	404.3
20°	394.3	394.3	394.3	398.3	397.4
22.5°	386.5	386.5	387.4	391.4	390.5
25°	378.6	377.6	378.6	382.5	383.4
27.5°	368.7	369.6	370.6	374.6	375.6
30°	358.8	359.8	360.8	365.7	366.7
32.5°	347.0	348.9	350.8	356.8	356.8
35°	335.1	337.0	340.1	347.0	347.9
37.5°	322.3	324.2	328.2	336.1	338.0
40°	308.3	311.4	317.3	325.2	328.2
42.5°	294.5	298.5	305.4	314.3	318.3
45°	279.7	283.6	292.6	303.5	308.3
47.5°	263.9	268.8	279.7	293.5	297.5
50°	247.1	254.0	266.9	281.7	286.6
52.5°	230.3	238.2	254.0	269.8	274.8
55°	212.5	221.3	241.2	257.0	262.9
57.5°	194.7	204.6	227.3	244.1	250.1
60°	175.9	187.8	212.5	229.3	234.3
62.5°	157.1	170.9	197.7	214.4	218.4
65°	137.4	154.2	181.8	196.7	200.6
67.5°	118.6	138.4	166.1	176.9	176.9
70°	98.9	120.5	148.3	151.2	145.3
72.5°	79.1	103.8	128.5	117.6	112.7
75°	60.3	88.0	100.8	91.0	88.0
77.5°	45.4	71.1	71.1	65.2	63.2
80°	31.6	54.4	47.5	41.6	38.5
82.5°	20.7	30.7	24.7	19.7	16.8
85°	10.9	11.9	6.9	5.9	5.0
87.5°	4.0	1.9	1.0	1.9	1.0
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)