

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: P881051

Luminaire Tested: **22CZ2-20VHE-RDP-UNV-B40**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20VHE-RDP-UNV-B40
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

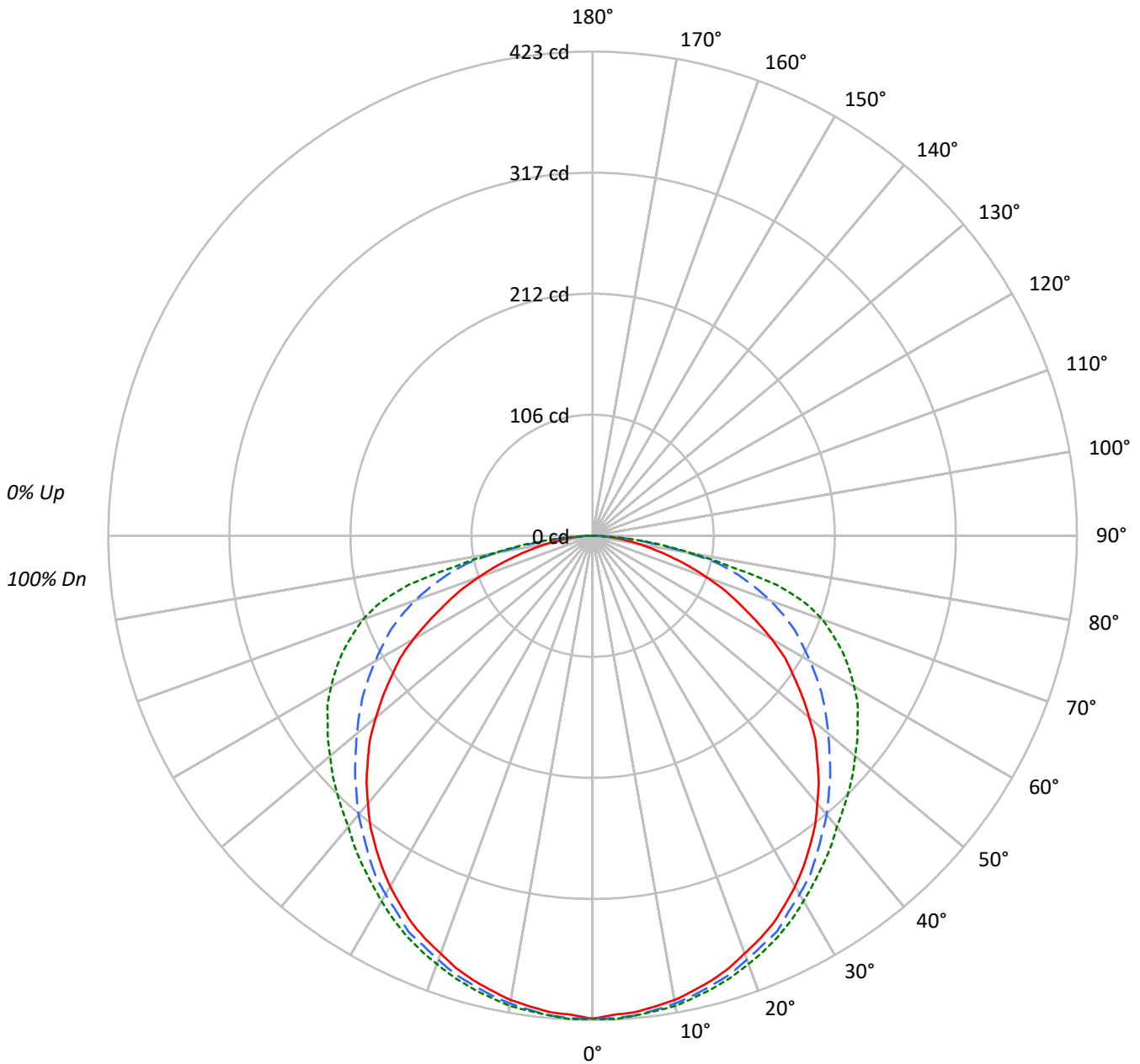
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1343.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
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									
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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82																			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67																			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55																			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47																			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35																			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31																			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27																			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1197	1197	1197
5°	1190	1199	1199
10°	1187	1195	1202
15°	1181	1193	1201
20°	1173	1190	1202
25°	1169	1194	1206
30°	1159	1185	1208
35°	1146	1181	1215
40°	1131	1178	1229
45°	1114	1178	1268
50°	1090	1186	1321
55°	1061	1213	1398
60°	1026	1245	1497
65°	955	1307	1619
70°	877	1369	1770
75°	770	1441	1831
80°	662	1371	1438
85°	580	996	1094



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	3.0
10°-20°	114.6	8.5
20°-30°	174.8	13.0
30°-40°	213.4	15.9
40°-50°	228.2	17.0
50°-60°	220.3	16.4
60°-70°	189.6	14.1
70°-80°	128.3	9.6
80°-90°	33.9	2.5
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°	329.3	24.5
0°-40°	542.7	40.4
0°-60°	991.2	73.8
0°-90°	1343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	418	419	421	421	421	40
15°	402	403	406	408	409	113
25°	374	375	381	383	385	172
35°	331	334	341	348	351	207
45°	278	282	294	308	316	214
55°	214	221	245	270	282	192
65°	142	156	195	225	241	141
75°	70	93	131	158	167	75
85°	18	25	31	32	34	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	421.9	421.9	421.9	421.9	421.9
2.5°	418.9	419.8	421.9	421.9	422.8
5°	417.9	418.9	420.8	420.8	420.8
7.5°	414.9	415.9	417.9	418.9	418.9
10°	411.9	413.0	414.9	415.9	417.0
12.5°	407.0	408.0	410.9	413.0	413.0
15°	402.1	403.0	406.0	408.0	409.0
17.5°	396.1	398.1	401.1	403.0	404.1
20°	388.3	390.2	394.1	397.2	398.1
22.5°	381.3	383.4	387.3	390.2	392.2
25°	373.5	375.4	381.3	383.4	385.3
27.5°	363.5	365.6	370.5	374.4	377.4
30°	353.7	355.7	361.6	366.6	368.6
32.5°	342.8	345.7	352.7	356.7	359.6
35°	330.9	333.9	340.8	347.7	350.8
37.5°	319.1	322.1	329.0	337.9	341.9
40°	305.3	309.2	318.1	330.0	331.9
42.5°	292.4	297.3	305.3	319.1	324.0
45°	277.6	282.5	293.5	308.3	316.1
47.5°	263.8	268.7	280.6	298.4	308.3
50°	247.0	253.9	268.7	289.5	299.3
52.5°	231.1	237.1	256.9	279.5	291.5
55°	214.4	221.3	245.1	269.7	282.5
57.5°	199.6	205.5	232.2	259.9	274.6
60°	180.8	188.7	219.3	248.9	263.8
62.5°	160.9	172.9	206.5	237.1	252.8
65°	142.2	156.0	194.7	225.2	241.1
67.5°	125.4	140.3	179.9	212.4	227.3
70°	105.7	124.5	165.0	196.7	213.4
72.5°	88.0	108.7	148.3	179.9	194.7
75°	70.2	92.9	131.4	158.1	167.0
77.5°	54.3	76.1	112.6	120.5	121.6
80°	40.5	60.3	83.9	84.9	88.0
82.5°	27.7	42.5	54.3	59.2	60.3
85°	17.8	24.8	30.6	31.6	33.6
87.5°	8.0	8.9	10.8	9.9	9.9
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)