

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: P842941

Luminaire Tested: **22CZ2-34HE-S-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-S-UNV-B35
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

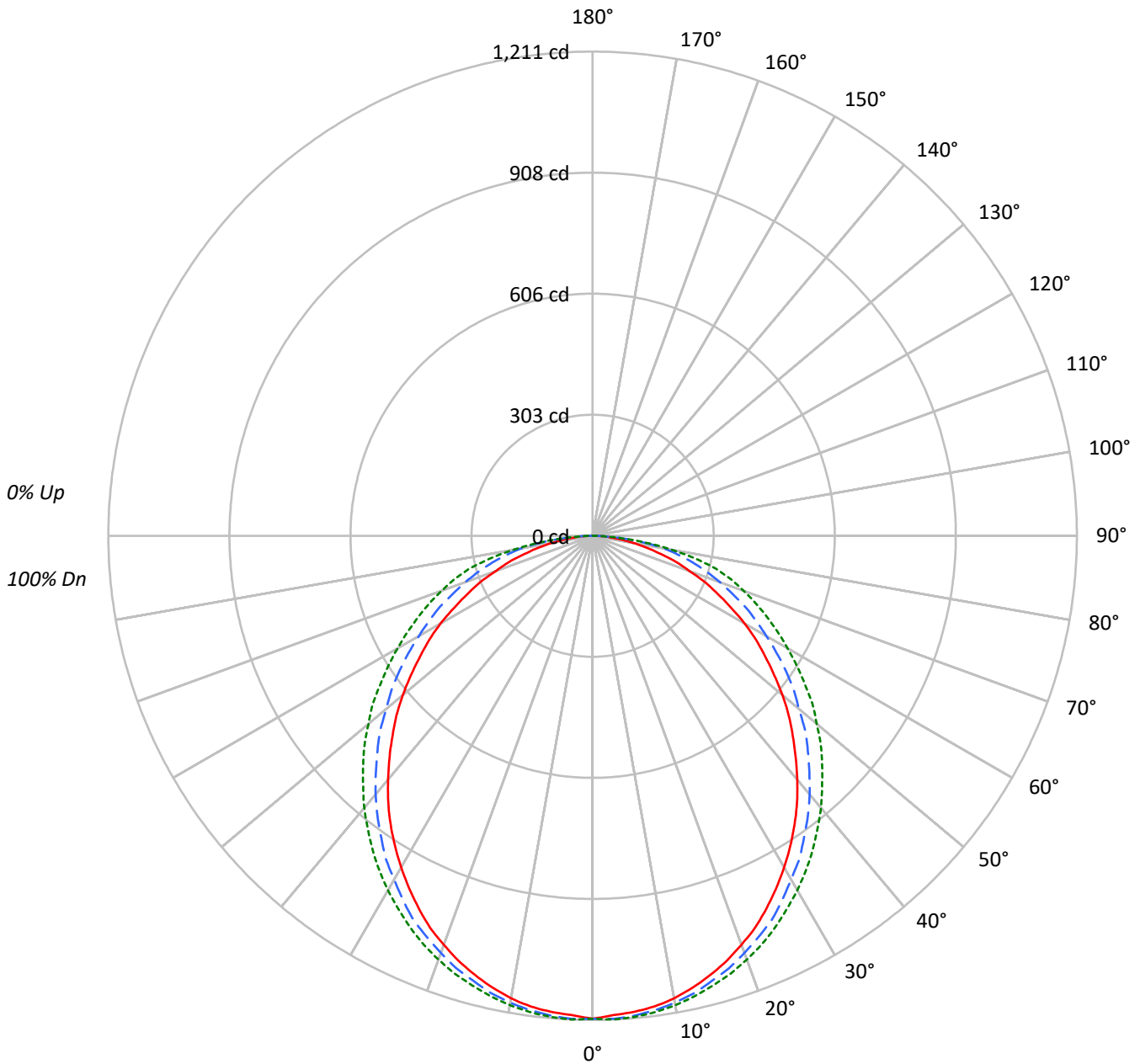
Lumens per Lamp: N/A
Luminaire Lumens: 3371.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43																			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37																			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3427	3427	3427
5°	3405	3431	3441
10°	3386	3417	3435
15°	3341	3387	3419
20°	3286	3353	3406
25°	3220	3319	3383
30°	3139	3252	3355
35°	3051	3193	3324
40°	2948	3129	3291
45°	2840	3055	3257
50°	2735	2972	3229
55°	2607	2918	3206
60°	2490	2847	3196
65°	2324	2830	3231
70°	2140	2805	3328
75°	1931	2845	3502
80°	1670	2930	3289
85°	1384	2455	2455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.4
10°-20°	325.1	9.6
20°-30°	486.4	14.4
30°-40°	576.0	17.1
40°-50°	587.0	17.4
50°-60°	526.2	15.6
60°-70°	411.9	12.2
70°-80°	265.6	7.9
80°-90°	78.4	2.3
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°	925.7	27.5
0°-40°	1501.8	44.5
0°-60°	2615.0	77.6
0°-90°	3371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1195	1198	1205	1206	1208	113
15°	1137	1144	1153	1162	1164	321
25°	1029	1038	1060	1074	1081	473
35°	881	892	922	950	960	550
45°	708	724	761	801	812	547
55°	527	544	590	631	648	472
65°	346	366	422	462	481	344
75°	176	203	260	304	319	189
85°	42	58	75	75	75	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.9	1207.9	1207.9	1207.9	1207.9
2.5°	1200.0	1203.2	1209.5	1211.2	1211.2
5°	1195.4	1198.5	1204.7	1206.4	1207.9
7.5°	1187.5	1189.0	1197.0	1200.0	1201.7
10°	1175.0	1178.0	1186.0	1190.7	1192.2
12.5°	1157.5	1162.3	1171.7	1178.0	1179.7
15°	1137.2	1143.5	1152.8	1162.3	1164.0
17.5°	1115.1	1121.5	1134.0	1145.0	1148.2
20°	1088.3	1096.3	1110.3	1123.0	1127.8
22.5°	1061.6	1067.9	1085.3	1101.0	1105.8
25°	1028.6	1038.1	1060.1	1074.3	1080.6
27.5°	994.0	1004.9	1027.1	1045.9	1052.1
30°	957.9	968.9	992.4	1016.1	1023.9
32.5°	920.0	932.7	961.0	984.7	992.4
35°	880.8	891.8	921.7	950.0	959.5
37.5°	839.9	849.3	884.0	913.8	923.3
40°	795.9	808.4	844.6	879.3	888.6
42.5°	751.7	765.9	802.1	839.9	849.3
45°	707.7	723.5	761.2	800.6	811.6
47.5°	665.3	677.8	720.4	758.2	773.9
50°	619.6	632.3	673.3	715.7	731.4
52.5°	572.4	589.9	633.8	674.8	693.5
55°	526.9	544.2	589.9	630.8	648.0
57.5°	484.5	498.5	545.7	588.1	605.6
60°	438.8	451.5	501.7	547.4	563.1
62.5°	390.1	408.8	460.8	503.2	522.2
65°	346.1	366.4	421.5	462.5	481.2
67.5°	305.2	323.9	377.6	421.5	442.0
70°	258.0	283.2	338.1	382.1	401.1
72.5°	220.2	242.2	298.9	342.9	363.4
75°	176.1	202.8	259.5	303.6	319.4
77.5°	140.1	166.8	220.2	254.7	262.7
80°	102.2	128.9	179.3	196.6	201.3
82.5°	69.2	94.4	128.9	133.6	135.3
85°	42.5	58.2	75.4	75.4	75.4
87.5°	20.5	23.5	26.7	25.2	25.2
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)