

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: P842963

Luminaire Tested: **22CZ2-39HE-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-UNV-B40
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

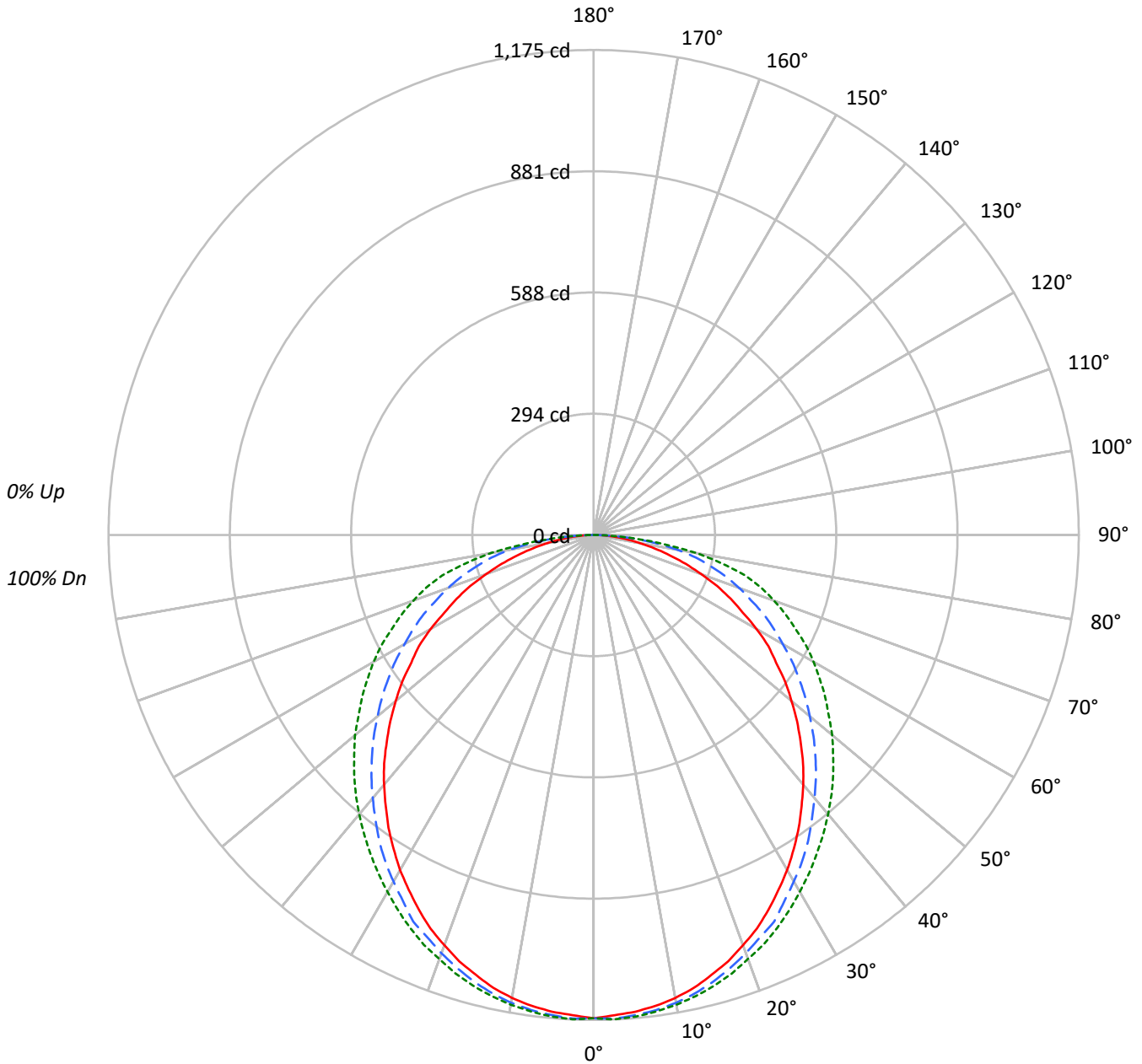
Lumens per Lamp: N/A
Luminaire Lumens: 3445.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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					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	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	101	96	93	96	93	90	92	90	87	89	86	84	82								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68								
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56								
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48								
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41								
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36								
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32								
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28								
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25								
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3324	3324	3324
5°	3303	3327	3336
10°	3282	3316	3331
15°	3242	3292	3322
20°	3194	3256	3301
25°	3137	3238	3291
30°	3071	3177	3272
35°	3000	3136	3265
40°	2926	3083	3271
45°	2844	3048	3292
50°	2761	3015	3330
55°	2667	3002	3387
60°	2588	3002	3492
65°	2458	3050	3620
70°	2293	3108	3854
75°	2101	3216	4164
80°	1829	3351	4100
85°	1602	2979	3259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.2
10°-20°	315.5	9.2
20°-30°	473.7	13.7
30°-40°	566.0	16.4
40°-50°	588.5	17.1
50°-60°	545.5	15.8
60°-70°	447.4	13.0
70°-80°	302.5	8.8
80°-90°	95.1	2.8
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°	900.0	26.1
0°-40°	1466.0	42.6
0°-60°	2600.0	75.5
0°-90°	3445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1160	1161	1168	1170	1171	110
15°	1104	1109	1120	1127	1131	311
25°	1002	1010	1034	1046	1051	461
35°	866	878	905	932	942	541
45°	709	722	760	803	820	547
55°	539	556	607	661	685	484
65°	366	386	454	514	539	362
75°	192	224	293	353	380	203
85°	49	68	92	102	100	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.3	1171.3	1171.3	1171.3	1171.3
2.5°	1164.6	1167.9	1173.0	1174.8	1174.8
5°	1159.5	1161.1	1167.9	1169.7	1171.3
7.5°	1150.9	1154.4	1161.1	1163.0	1164.6
10°	1139.1	1142.5	1150.9	1154.4	1156.0
12.5°	1123.9	1127.2	1137.4	1142.5	1144.2
15°	1103.5	1108.6	1120.5	1127.2	1130.7
17.5°	1083.3	1088.2	1100.2	1110.3	1113.7
20°	1057.8	1069.6	1078.2	1091.7	1093.3
22.5°	1032.4	1039.2	1054.3	1068.0	1074.7
25°	1001.8	1010.4	1034.1	1045.9	1051.0
27.5°	969.7	981.6	1000.1	1018.7	1025.5
30°	937.4	945.8	969.7	991.6	998.5
32.5°	901.9	913.7	939.1	961.1	971.3
35°	866.1	878.0	905.2	932.3	942.5
37.5°	827.3	840.8	868.0	900.1	913.7
40°	789.9	800.2	832.2	871.2	883.1
42.5°	750.9	762.8	796.7	839.2	852.7
45°	708.6	722.1	759.5	803.4	820.4
47.5°	667.8	681.5	722.1	766.2	786.5
50°	625.5	642.5	683.1	734.0	754.4
52.5°	584.8	600.2	645.9	698.4	717.0
55°	539.1	556.0	606.9	661.0	684.7
57.5°	501.7	513.6	569.5	625.5	649.2
60°	456.0	471.3	528.9	588.1	615.3
62.5°	406.9	432.3	491.5	552.6	579.7
65°	366.1	386.5	454.3	513.6	539.1
67.5°	323.8	345.8	411.8	474.7	503.5
70°	276.4	305.2	374.6	437.4	464.5
72.5°	233.9	264.5	335.6	396.7	425.5
75°	191.6	223.7	293.3	352.6	379.8
77.5°	151.0	186.5	254.3	300.1	317.0
80°	111.9	145.9	205.1	237.4	250.9
82.5°	78.0	106.8	151.0	167.9	171.2
85°	49.2	67.8	91.5	101.7	100.1
87.5°	22.1	27.2	33.9	37.4	35.5
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)