

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: P842978

Luminaire Tested: **22CZ2-44HE-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842978
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: 22CZ2-44HE-UNV-B40
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

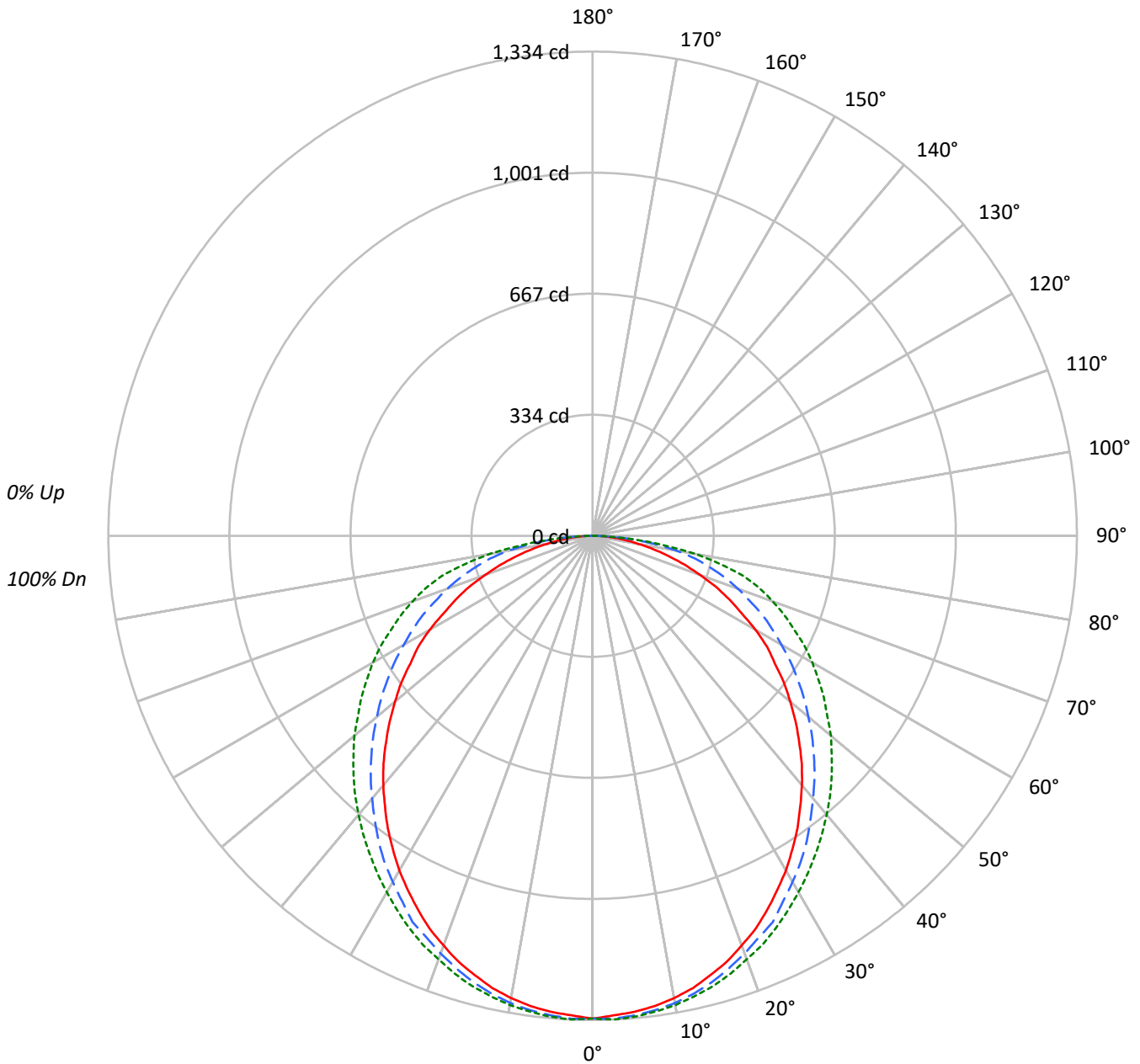
Lumens per Lamp: N/A
Luminaire Lumens: 3912.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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°	3774	3774	3774
5°	3750	3778	3789
10°	3727	3766	3782
15°	3681	3738	3772
20°	3627	3697	3749
25°	3562	3676	3737
30°	3488	3608	3715
35°	3407	3561	3708
40°	3323	3500	3715
45°	3229	3461	3738
50°	3136	3424	3782
55°	3029	3410	3847
60°	2939	3408	3965
65°	2791	3464	4110
70°	2604	3529	4376
75°	2386	3652	4727
80°	2077	3806	4655
85°	1820	3383	3702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.2
10°-20°	358.3	9.2
20°-30°	537.9	13.7
30°-40°	642.7	16.4
40°-50°	668.3	17.1
50°-60°	619.4	15.8
60°-70°	508.1	13.0
70°-80°	343.5	8.8
80°-90°	108.0	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°	1022.0	26.1
0°-40°	1664.7	42.6
0°-60°	2952.4	75.5
0°-90°	3912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1317	1318	1326	1328	1330	125
15°	1253	1259	1272	1280	1284	353
25°	1138	1147	1174	1188	1194	524
35°	984	997	1028	1059	1070	615
45°	805	820	862	912	932	621
55°	612	631	689	751	778	550
65°	416	439	516	583	612	411
75°	218	254	333	400	431	231
85°	56	77	104	116	114	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.1	1330.1	1330.1	1330.1	1330.1
2.5°	1322.5	1326.2	1332.0	1334.1	1334.1
5°	1316.7	1318.5	1326.2	1328.3	1330.1
7.5°	1306.9	1310.9	1318.5	1320.6	1322.5
10°	1293.5	1297.4	1306.9	1310.9	1312.7
12.5°	1276.3	1280.0	1291.6	1297.4	1299.3
15°	1253.1	1258.9	1272.4	1280.0	1284.0
17.5°	1230.1	1235.7	1249.4	1260.8	1264.7
20°	1201.1	1214.6	1224.3	1239.7	1241.5
22.5°	1172.4	1180.0	1197.2	1212.7	1220.4
25°	1137.6	1147.3	1174.2	1187.7	1193.5
27.5°	1101.2	1114.6	1135.7	1156.8	1164.5
30°	1064.5	1074.0	1101.2	1126.0	1133.9
32.5°	1024.1	1037.6	1066.4	1091.4	1103.0
35°	983.6	997.0	1027.9	1058.7	1070.3
37.5°	939.5	954.8	985.6	1022.1	1037.6
40°	897.0	908.6	945.0	989.4	1002.8
42.5°	852.7	866.2	904.7	952.9	968.2
45°	804.7	820.0	862.5	912.3	931.6
47.5°	758.3	773.9	820.0	870.1	893.1
50°	710.3	729.5	775.7	833.5	856.7
52.5°	664.1	681.5	733.5	793.1	814.2
55°	612.2	631.4	689.2	750.7	777.6
57.5°	569.7	583.2	646.7	710.3	737.2
60°	517.8	535.2	600.6	667.8	698.7
62.5°	462.1	490.8	558.1	627.5	658.3
65°	415.7	438.9	515.9	583.2	612.2
67.5°	367.7	392.7	467.7	539.1	571.8
70°	313.9	346.6	425.4	496.6	527.5
72.5°	265.6	300.4	381.1	450.5	483.2
75°	217.6	254.0	333.1	400.4	431.2
77.5°	171.4	211.8	288.8	340.8	360.0
80°	127.1	165.6	232.9	269.5	284.9
82.5°	88.6	121.3	171.4	190.7	194.4
85°	55.9	77.0	103.9	115.5	113.7
87.5°	25.1	30.9	38.5	42.5	40.4
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)