

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: P842979

Luminaire Tested: **22CZ2-44HE-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842979
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-B50
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

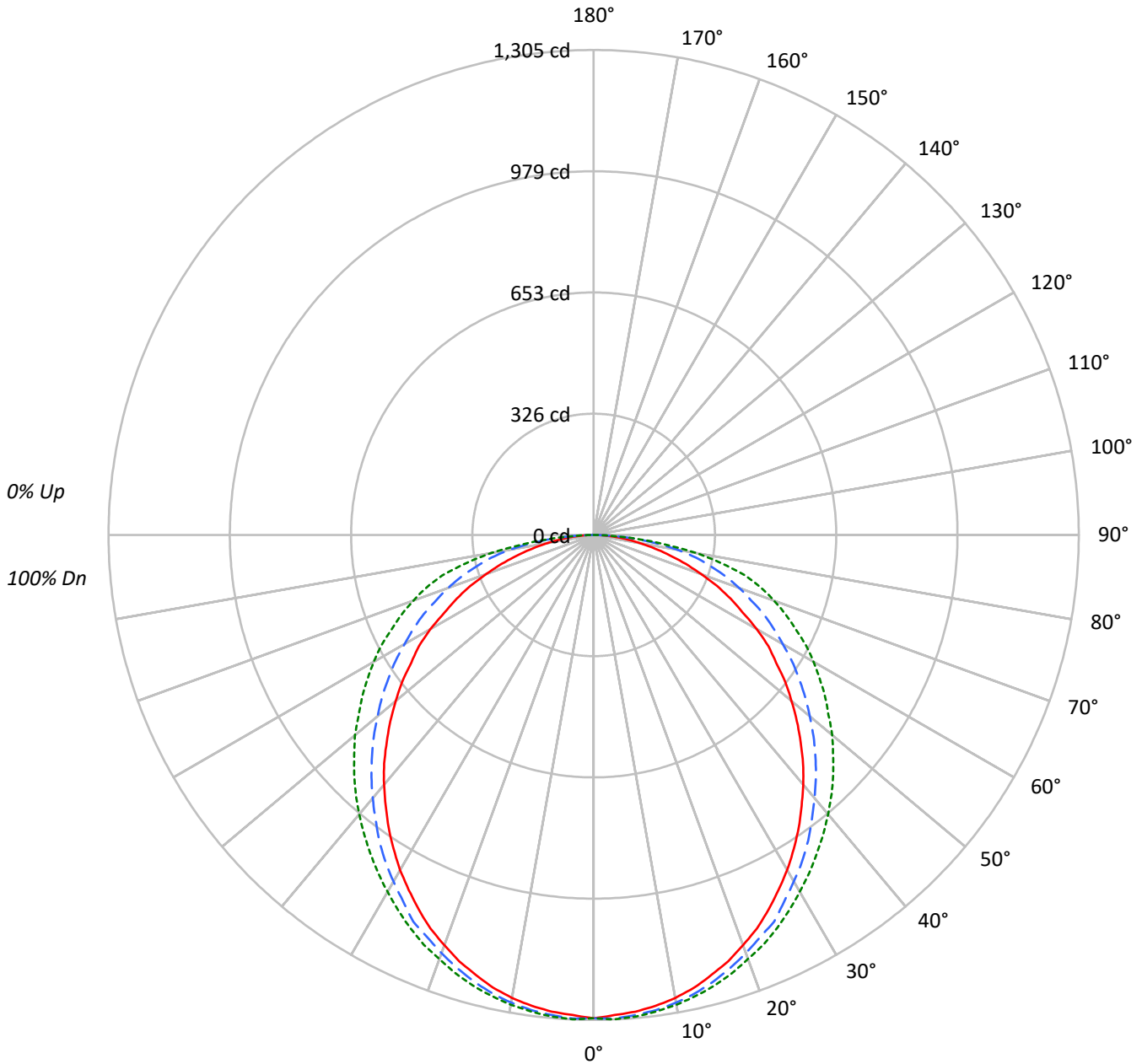
Lumens per Lamp: N/A
Luminaire Lumens: 3826.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (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					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°	3691	3691	3691
5°	3668	3694	3705
10°	3645	3683	3699
15°	3600	3656	3689
20°	3547	3616	3666
25°	3483	3595	3655
30°	3411	3529	3633
35°	3332	3482	3626
40°	3250	3424	3633
45°	3158	3385	3656
50°	3067	3349	3698
55°	2962	3334	3762
60°	2874	3334	3878
65°	2730	3388	4020
70°	2547	3452	4280
75°	2333	3572	4624
80°	2031	3722	4553
85°	1781	3308	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.2
10°-20°	350.4	9.2
20°-30°	526.1	13.7
30°-40°	628.6	16.4
40°-50°	653.6	17.1
50°-60°	605.8	15.8
60°-70°	496.9	13.0
70°-80°	336.0	8.8
80°-90°	105.6	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°	999.5	26.1
0°-40°	1628.1	42.6
0°-60°	2887.5	75.5
0°-90°	3826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1288	1290	1297	1299	1301	122
15°	1226	1231	1244	1252	1256	346
25°	1113	1122	1148	1162	1167	512
35°	962	975	1005	1035	1047	601
45°	787	802	844	892	911	608
55°	599	618	674	734	760	538
65°	407	429	505	570	599	402
75°	213	248	326	392	422	226
85°	55	75	102	113	111	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.9	1300.9	1300.9	1300.9	1300.9
2.5°	1293.4	1297.0	1302.7	1304.7	1304.7
5°	1287.7	1289.5	1297.0	1299.1	1300.9
7.5°	1278.2	1282.0	1289.5	1291.6	1293.4
10°	1265.0	1268.9	1278.2	1282.0	1283.9
12.5°	1248.2	1251.9	1263.2	1268.9	1270.7
15°	1225.6	1231.2	1244.4	1251.9	1255.7
17.5°	1203.1	1208.5	1221.9	1233.0	1236.9
20°	1174.7	1187.9	1197.4	1212.4	1214.2
22.5°	1146.6	1154.1	1170.9	1186.1	1193.6
25°	1112.6	1122.1	1148.4	1161.6	1167.3
27.5°	1077.0	1090.1	1110.8	1131.4	1138.9
30°	1041.1	1050.4	1077.0	1101.2	1108.9
32.5°	1001.6	1014.8	1042.9	1067.4	1078.8
35°	961.9	975.1	1005.3	1035.4	1046.8
37.5°	918.8	933.8	964.0	999.6	1014.8
40°	877.3	888.7	924.3	967.6	980.8
42.5°	834.0	847.1	884.8	932.0	947.0
45°	787.0	802.0	843.5	892.3	911.1
47.5°	741.6	756.8	802.0	851.0	873.5
50°	694.7	713.5	758.7	815.1	837.8
52.5°	649.5	666.5	717.4	775.7	796.3
55°	598.7	617.5	674.0	734.2	760.5
57.5°	557.2	570.4	632.5	694.7	721.0
60°	506.4	523.4	587.4	653.2	683.3
62.5°	451.9	480.1	545.9	613.7	643.9
65°	406.6	429.2	504.6	570.4	598.7
67.5°	359.6	384.1	457.4	527.2	559.2
70°	307.0	338.9	416.1	485.7	515.9
72.5°	259.8	293.8	372.7	440.6	472.6
75°	212.8	248.4	325.8	391.6	421.8
77.5°	167.7	207.1	282.5	333.3	352.1
80°	124.3	162.0	227.8	263.6	278.6
82.5°	86.7	118.7	167.7	186.5	190.1
85°	54.7	75.3	101.6	113.0	111.2
87.5°	24.5	30.2	37.7	41.5	39.5
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)