

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: P842965

Luminaire Tested: **22CZ2-44HE-HRP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-HRP-UNV-B35
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

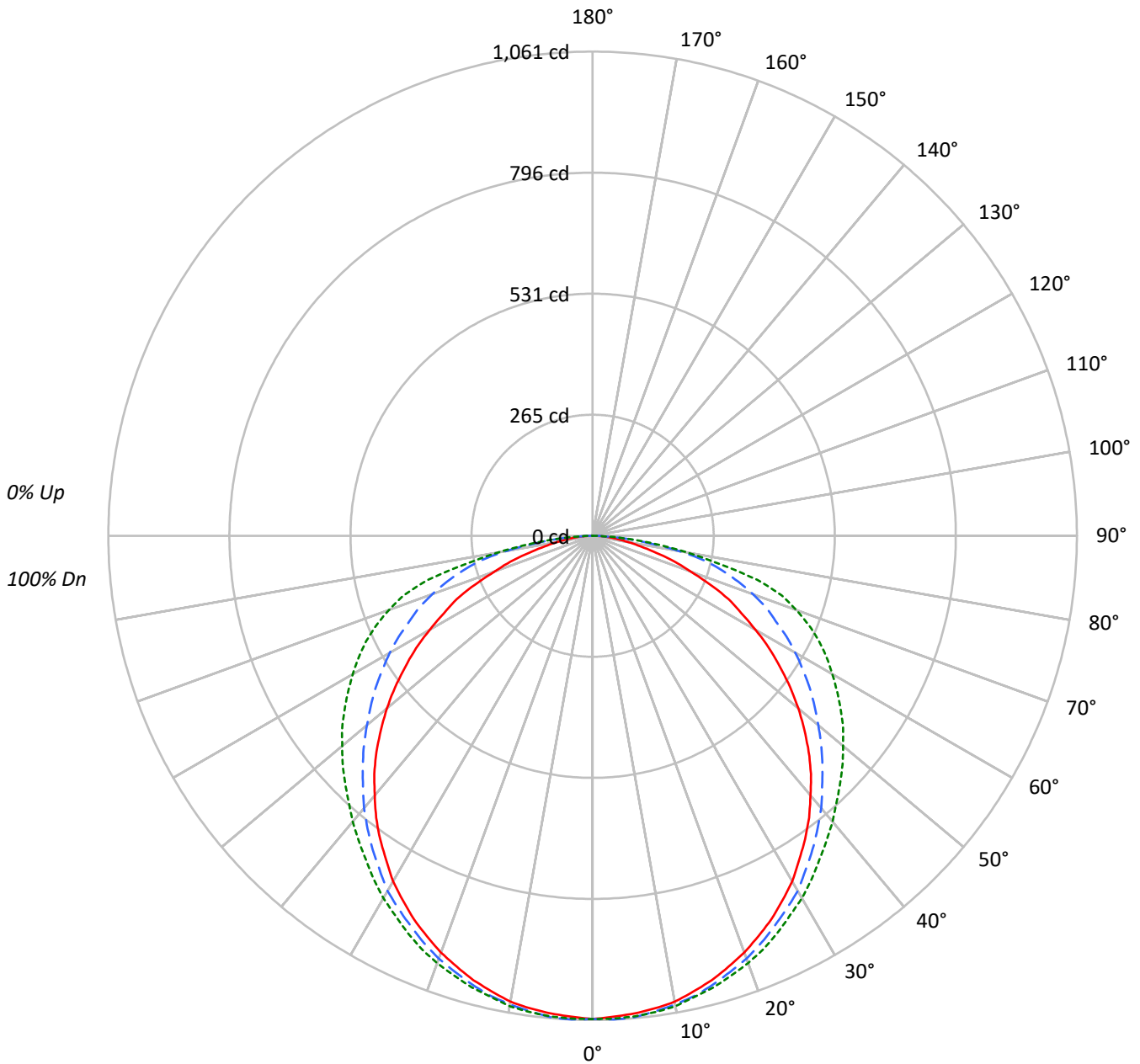
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3216.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
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									
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	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3005	3005	3005
5°	2993	3016	3011
10°	2987	3005	3016
15°	2962	2992	3009
20°	2934	2977	3008
25°	2902	2954	3004
30°	2865	2944	3005
35°	2811	2909	3001
40°	2750	2886	3029
45°	2687	2857	3077
50°	2597	2848	3162
55°	2479	2871	3282
60°	2338	2913	3442
65°	2207	2969	3678
70°	1884	3097	3937
75°	1579	3225	4093
80°	1293	3116	3414
85°	1126	2315	2507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	3.1
10°-20°	287.1	8.9
20°-30°	435.1	13.5
30°-40°	525.4	16.3
40°-50°	552.1	17.2
50°-60°	519.4	16.2
60°-70°	433.1	13.5
70°-80°	287.0	8.9
80°-90°	76.5	2.4
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°	822.6	25.6
0°-40°	1348.0	41.9
0°-60°	2419.5	75.2
0°-90°	3216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1051	1053	1059	1059	1057	100
15°	1008	1012	1018	1022	1024	284
25°	927	933	943	956	960	427
35°	812	820	840	858	866	507
45°	670	680	712	749	767	516
55°	501	523	580	639	663	448
65°	329	357	442	515	548	320
75°	144	201	294	355	373	156
85°	35	53	71	77	77	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1054.9	1057.1	1061.1	1061.1	1059.0
5°	1050.9	1052.8	1059.0	1059.0	1057.1
7.5°	1044.7	1046.9	1050.9	1054.9	1052.8
10°	1036.7	1038.6	1042.9	1046.9	1046.9
12.5°	1022.5	1024.4	1032.7	1034.6	1034.6
15°	1008.3	1012.3	1018.5	1022.5	1024.4
17.5°	990.0	994.1	1002.1	1010.4	1010.4
20°	971.8	975.8	986.0	994.1	996.2
22.5°	949.5	955.5	965.6	975.8	979.9
25°	927.0	933.2	943.4	955.5	959.5
27.5°	900.7	906.9	921.1	935.3	937.2
30°	874.5	880.4	898.6	910.9	917.1
32.5°	842.0	850.1	868.3	886.5	892.7
35°	811.5	819.5	839.9	858.1	866.2
37.5°	779.0	787.1	809.6	831.8	842.0
40°	742.5	752.7	779.0	803.4	817.6
42.5°	707.9	718.1	744.4	777.1	791.1
45°	669.6	679.5	712.0	748.7	766.9
47.5°	628.8	641.2	679.5	724.3	742.5
50°	588.3	602.5	645.2	695.9	716.2
52.5°	545.7	563.9	612.7	667.4	691.8
55°	501.2	523.4	580.3	639.0	663.4
57.5°	458.5	478.7	545.7	608.7	635.0
60°	411.9	438.2	513.3	578.2	606.6
62.5°	367.1	395.5	478.7	547.8	578.2
65°	328.7	356.9	442.2	515.4	547.8
67.5°	277.8	316.4	411.9	480.8	513.3
70°	227.1	280.0	373.3	444.3	474.6
72.5°	188.8	239.5	334.7	405.7	434.1
75°	144.0	200.8	294.2	355.0	373.3
77.5°	107.5	166.3	251.5	282.1	284.0
80°	79.1	127.9	190.7	200.8	208.9
82.5°	54.7	89.3	123.6	136.0	140.0
85°	34.6	52.8	71.1	77.0	77.0
87.5°	18.2	20.4	24.4	24.4	24.4
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)