

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: P842974

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-SQR-UNV-B35
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

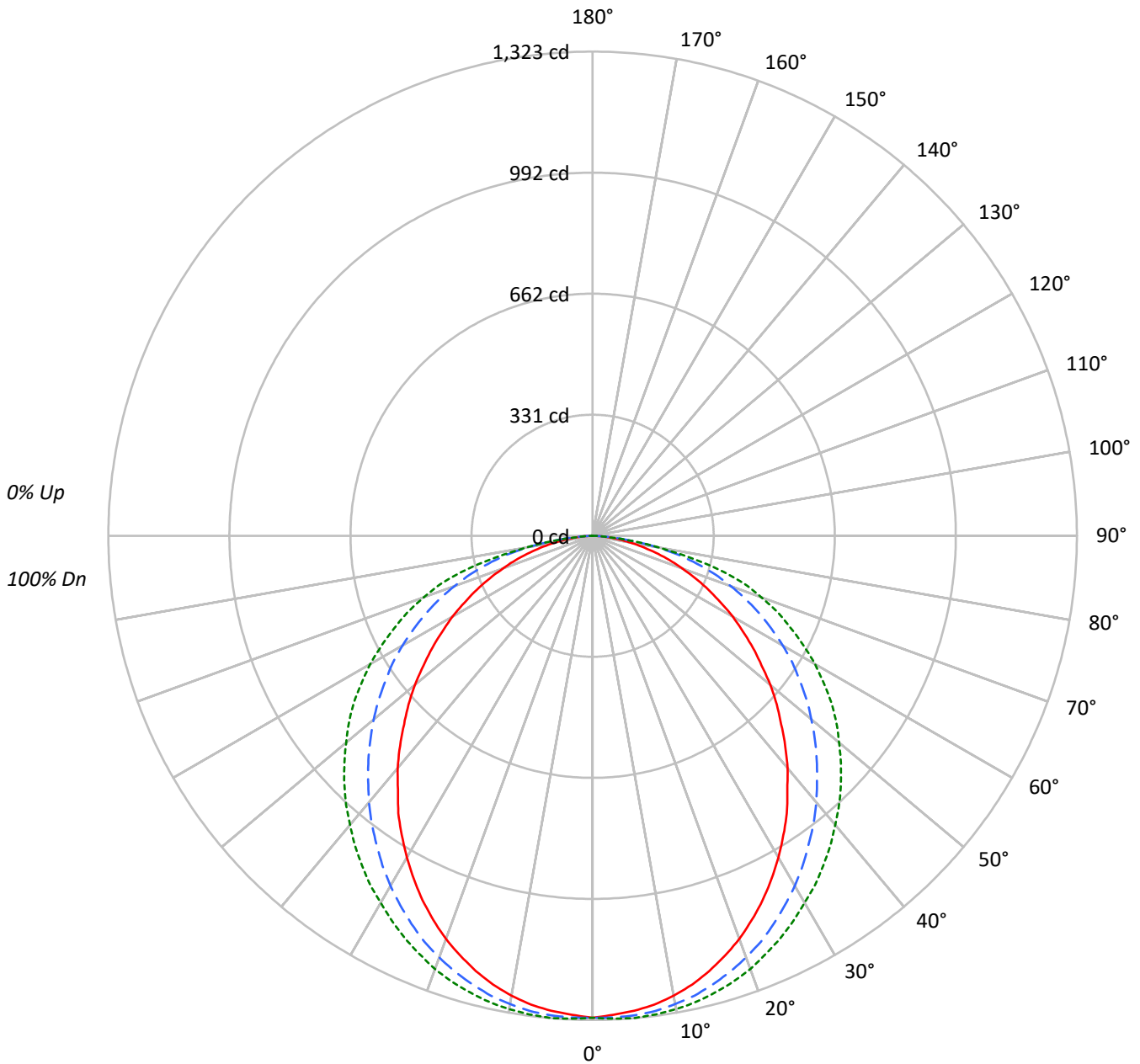
Lumens per Lamp: N/A
Luminaire Lumens: 3771.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	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	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3738	3738	3738
5°	3711	3747	3768
10°	3677	3744	3785
15°	3617	3728	3796
20°	3540	3702	3804
25°	3441	3664	3799
30°	3325	3618	3794
35°	3206	3565	3807
40°	3070	3520	3818
45°	2923	3476	3850
50°	2797	3445	3879
55°	2648	3417	3940
60°	2510	3403	3981
65°	2344	3377	4013
70°	2154	3326	4069
75°	1944	3239	3924
80°	1668	2866	2956
85°	1345	1693	1345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.3
10°-20°	357.0	9.5
20°-30°	536.3	14.2
30°-40°	639.6	17.0
40°-50°	661.3	17.5
50°-60°	607.9	16.1
60°-70°	484.0	12.8
70°-80°	295.7	7.8
80°-90°	64.4	1.7
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°	1018.2	27.0
0°-40°	1657.7	44.0
0°-60°	2926.9	77.6
0°-90°	3771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1303	1306	1316	1321	1323	124
15°	1231	1246	1269	1287	1292	347
25°	1099	1126	1170	1203	1213	506
35°	925	965	1029	1083	1099	577
45°	728	780	866	936	959	563
55°	535	594	691	770	796	479
65°	349	408	503	573	598	346
75°	177	229	295	347	358	189
85°	41	50	52	45	41	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1317.2	1317.2	1317.2	1317.2	1317.2
2.5°	1310.0	1311.9	1317.2	1320.8	1320.8
5°	1302.9	1306.5	1315.5	1320.8	1322.7
7.5°	1292.1	1297.6	1310.0	1317.2	1319.1
10°	1276.1	1283.3	1299.3	1310.0	1313.6
12.5°	1256.3	1267.1	1286.9	1301.2	1304.8
15°	1231.3	1245.6	1269.0	1286.9	1292.1
17.5°	1202.7	1220.5	1249.2	1270.7	1277.8
20°	1172.3	1190.2	1226.0	1251.1	1259.9
22.5°	1136.6	1159.7	1201.0	1229.6	1236.8
25°	1098.9	1125.8	1170.4	1202.7	1213.4
27.5°	1057.8	1090.0	1138.2	1177.6	1186.7
30°	1014.9	1048.7	1104.3	1147.3	1158.0
32.5°	970.0	1009.4	1068.5	1116.7	1131.1
35°	925.4	964.7	1029.2	1082.9	1098.9
37.5°	873.4	919.9	991.5	1047.1	1066.6
40°	828.7	873.4	950.4	1011.3	1030.8
42.5°	778.6	826.8	907.5	973.6	997.0
45°	728.5	780.3	866.2	936.1	959.3
47.5°	682.0	733.8	823.2	896.7	919.9
50°	633.5	687.2	780.3	855.5	878.8
52.5°	581.8	640.7	737.3	812.5	839.5
55°	535.2	594.2	690.8	769.6	796.5
57.5°	486.8	547.6	647.9	723.0	748.1
60°	442.2	501.1	599.7	672.9	701.5
62.5°	393.7	454.6	551.2	622.8	649.8
65°	349.1	408.0	503.0	572.7	597.7
67.5°	304.2	363.4	452.9	519.0	547.6
70°	259.6	318.6	400.9	465.3	490.4
72.5°	220.2	272.0	350.8	410.0	433.1
75°	177.3	229.1	295.4	347.2	357.9
77.5°	137.9	184.5	239.8	263.2	266.8
80°	102.1	137.9	175.4	180.9	180.9
82.5°	68.0	95.0	109.3	111.0	109.3
85°	41.3	50.1	52.0	44.9	41.3
87.5°	14.3	14.3	9.1	5.5	1.9
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)