

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: P842988

Luminaire Tested: **24CZ2-30-S-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-S-UNV-B50
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

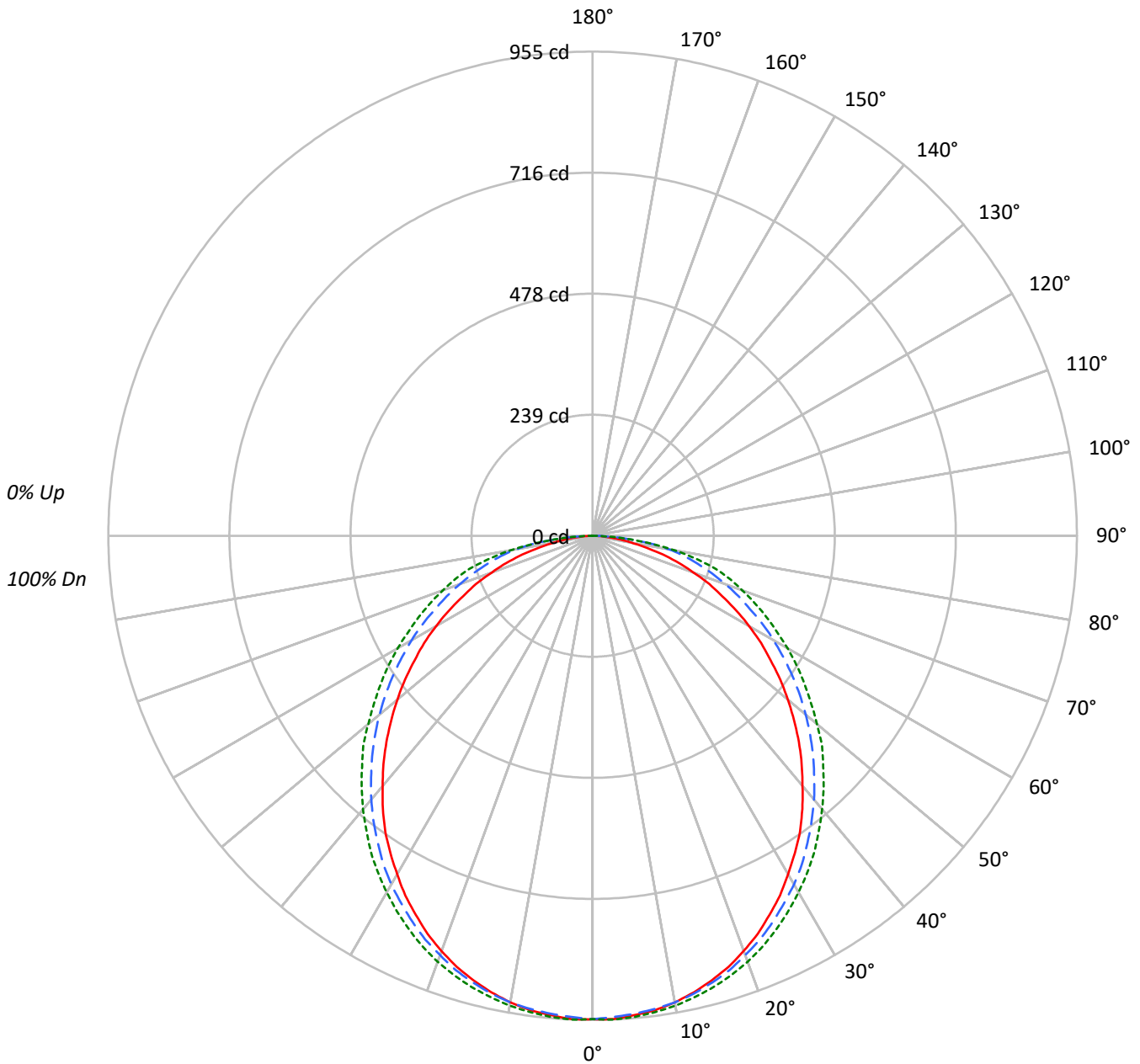
Lumens per Lamp: N/A
Luminaire Lumens: 2714.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	40	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°	1346	1346	1346
5°	1345	1341	1350
10°	1339	1339	1349
15°	1326	1333	1347
20°	1309	1322	1343
25°	1285	1309	1334
30°	1256	1294	1323
35°	1228	1273	1313
40°	1186	1252	1298
45°	1148	1227	1284
50°	1104	1204	1268
55°	1054	1182	1256
60°	1005	1163	1253
65°	941	1143	1261
70°	872	1149	1295
75°	780	1171	1368
80°	631	1240	1338
85°	474	1088	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.3
10°-20°	257.9	9.5
20°-30°	387.7	14.3
30°-40°	461.8	17.0
40°-50°	472.6	17.4
50°-60°	425.5	15.7
60°-70°	334.2	12.3
70°-80°	216.9	8.0
80°-90°	67.1	2.5
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°	735.9	27.1
0°-40°	1197.7	44.1
0°-60°	2095.9	77.2
0°-90°	2714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	949	951	946	952	953	90
15°	908	910	912	920	922	256
25°	825	832	840	854	857	380
35°	713	722	739	757	762	445
45°	575	589	615	638	643	443
55°	428	448	480	505	510	384
65°	282	304	342	371	378	281
75°	143	171	215	244	251	151
85°	29	54	67	66	66	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.5	953.5	953.5	953.5	953.5
2.5°	954.3	954.3	950.0	954.3	955.2
5°	949.1	950.9	946.5	951.7	952.6
7.5°	943.9	943.9	941.3	946.5	947.5
10°	934.5	935.3	934.5	940.5	941.3
12.5°	922.4	924.1	925.0	931.1	931.9
15°	907.8	910.4	912.0	919.8	921.6
17.5°	891.4	894.0	898.2	906.9	908.6
20°	871.5	875.0	880.2	891.4	894.0
22.5°	850.0	853.5	862.1	872.4	876.7
25°	825.0	831.9	840.5	854.3	856.9
27.5°	800.0	806.0	817.2	831.9	835.4
30°	770.7	780.1	794.0	808.6	812.0
32.5°	742.2	751.7	768.1	783.7	787.9
35°	712.9	721.6	738.8	756.9	762.1
37.5°	679.3	690.5	709.5	727.6	732.8
40°	644.0	657.8	679.3	698.3	704.3
42.5°	610.3	625.0	646.6	667.2	674.1
45°	575.0	588.8	614.7	637.9	643.1
47.5°	538.8	554.3	581.9	605.1	613.7
50°	502.6	519.0	548.3	572.4	577.6
52.5°	466.4	483.6	514.7	540.5	543.1
55°	428.4	447.5	480.2	505.2	510.4
57.5°	394.0	410.4	445.7	471.6	477.6
60°	356.1	374.1	412.0	436.2	443.9
62.5°	319.8	338.8	378.5	402.6	409.4
65°	281.9	303.5	342.2	370.7	377.6
67.5°	249.2	269.8	311.2	338.8	345.7
70°	211.2	234.5	278.5	306.9	313.8
72.5°	178.4	202.5	246.6	274.1	284.5
75°	143.1	170.7	214.7	244.0	250.8
77.5°	108.6	140.5	185.3	207.7	207.7
80°	77.6	111.2	152.6	163.0	164.6
82.5°	50.9	83.6	112.9	112.1	112.1
85°	29.3	54.3	67.2	65.5	65.5
87.5°	11.2	22.4	24.1	24.1	23.3
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)