

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: P842987

Luminaire Tested: **24CZ2-30-S-UNV-B40**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P842987
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-B40
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

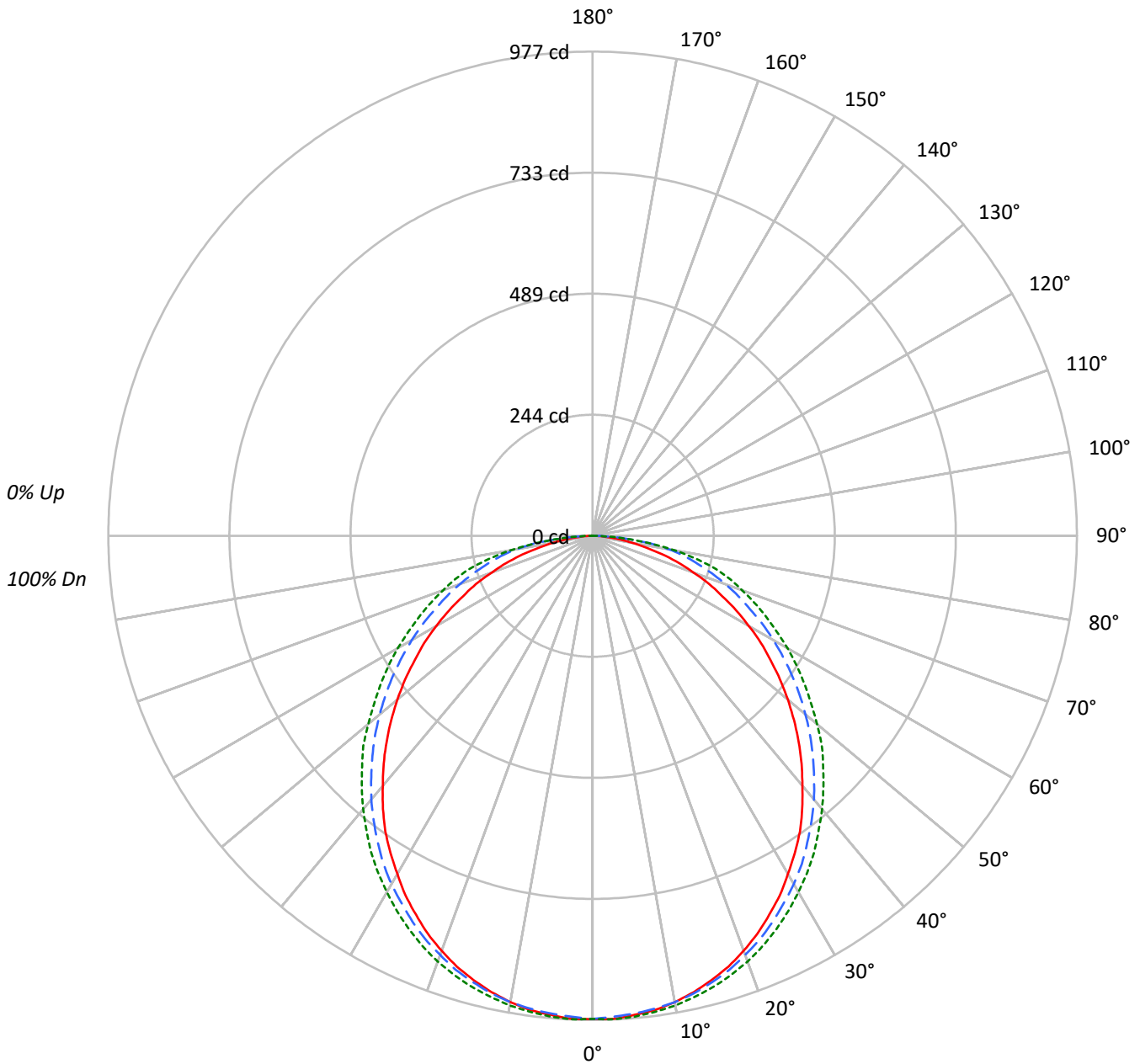
Lumens per Lamp: N/A
Luminaire Lumens: 2775.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P842987

CATALOG NUMBER: 24CZ2-30-S-UNV-B40

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°	1376	1376	1376
5°	1375	1371	1380
10°	1369	1369	1379
15°	1356	1363	1377
20°	1338	1352	1373
25°	1314	1338	1364
30°	1284	1323	1353
35°	1256	1301	1343
40°	1213	1280	1327
45°	1173	1254	1313
50°	1128	1231	1297
55°	1078	1208	1284
60°	1028	1189	1281
65°	962	1168	1289
70°	891	1175	1324
75°	798	1197	1399
80°	645	1268	1368
85°	484	1112	1085



TEST NUMBER: P842987

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.3
10°-20°	263.7	9.5
20°-30°	396.4	14.3
30°-40°	472.2	17.0
40°-50°	483.3	17.4
50°-60°	435.1	15.7
60°-70°	341.7	12.3
70°-80°	221.8	8.0
80°-90°	68.6	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°	752.4	27.1
0°-40°	1224.6	44.1
0°-60°	2143.0	77.2
0°-90°	2775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	970	972	968	973	974	92
15°	928	931	932	940	942	262
25°	844	851	859	874	876	389
35°	729	738	755	774	779	455
45°	588	602	628	652	658	453
55°	438	458	491	517	522	393
65°	288	310	350	379	386	287
75°	146	174	220	250	256	155
85°	30	56	69	67	67	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	974.9	974.9	974.9	974.9	974.9
2.5°	975.8	975.8	971.3	975.8	976.6
5°	970.5	972.3	967.8	973.1	974.0
7.5°	965.2	965.2	962.5	967.8	968.8
10°	955.5	956.3	955.5	961.6	962.5
12.5°	943.2	944.9	945.8	952.0	952.8
15°	928.2	930.8	932.5	940.5	942.3
17.5°	911.4	914.1	918.4	927.2	929.0
20°	891.1	894.6	899.9	911.4	914.1
22.5°	869.1	872.6	881.5	892.0	896.4
25°	843.6	850.6	859.4	873.5	876.2
27.5°	818.0	824.1	835.6	850.6	854.2
30°	788.0	797.7	811.8	826.8	830.3
32.5°	758.9	768.6	785.4	801.3	805.6
35°	729.0	737.8	755.4	773.9	779.2
37.5°	694.6	706.0	725.5	743.9	749.2
40°	658.4	672.6	694.6	714.0	720.1
42.5°	624.0	639.0	661.1	682.2	689.2
45°	587.9	602.1	628.5	652.3	657.6
47.5°	550.9	566.8	594.9	618.7	627.5
50°	513.9	530.7	560.6	585.3	590.6
52.5°	476.8	494.5	526.2	552.7	555.3
55°	438.1	457.5	491.0	516.6	521.9
57.5°	402.8	419.6	455.7	482.2	488.3
60°	364.1	382.5	421.3	446.0	453.9
62.5°	327.0	346.4	387.0	411.6	418.6
65°	288.2	310.3	349.9	379.0	386.0
67.5°	254.8	275.9	318.2	346.4	353.4
70°	215.9	239.8	284.7	313.8	320.8
72.5°	182.5	207.1	252.1	280.3	290.9
75°	146.3	174.5	219.5	249.5	256.5
77.5°	111.1	143.7	189.5	212.4	212.4
80°	79.3	113.7	156.0	166.6	168.3
82.5°	52.0	85.5	115.4	114.6	114.6
85°	29.9	55.5	68.7	67.0	67.0
87.5°	11.5	22.9	24.6	24.6	23.8
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)