

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: P842990

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-SQR-UNV-B40
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

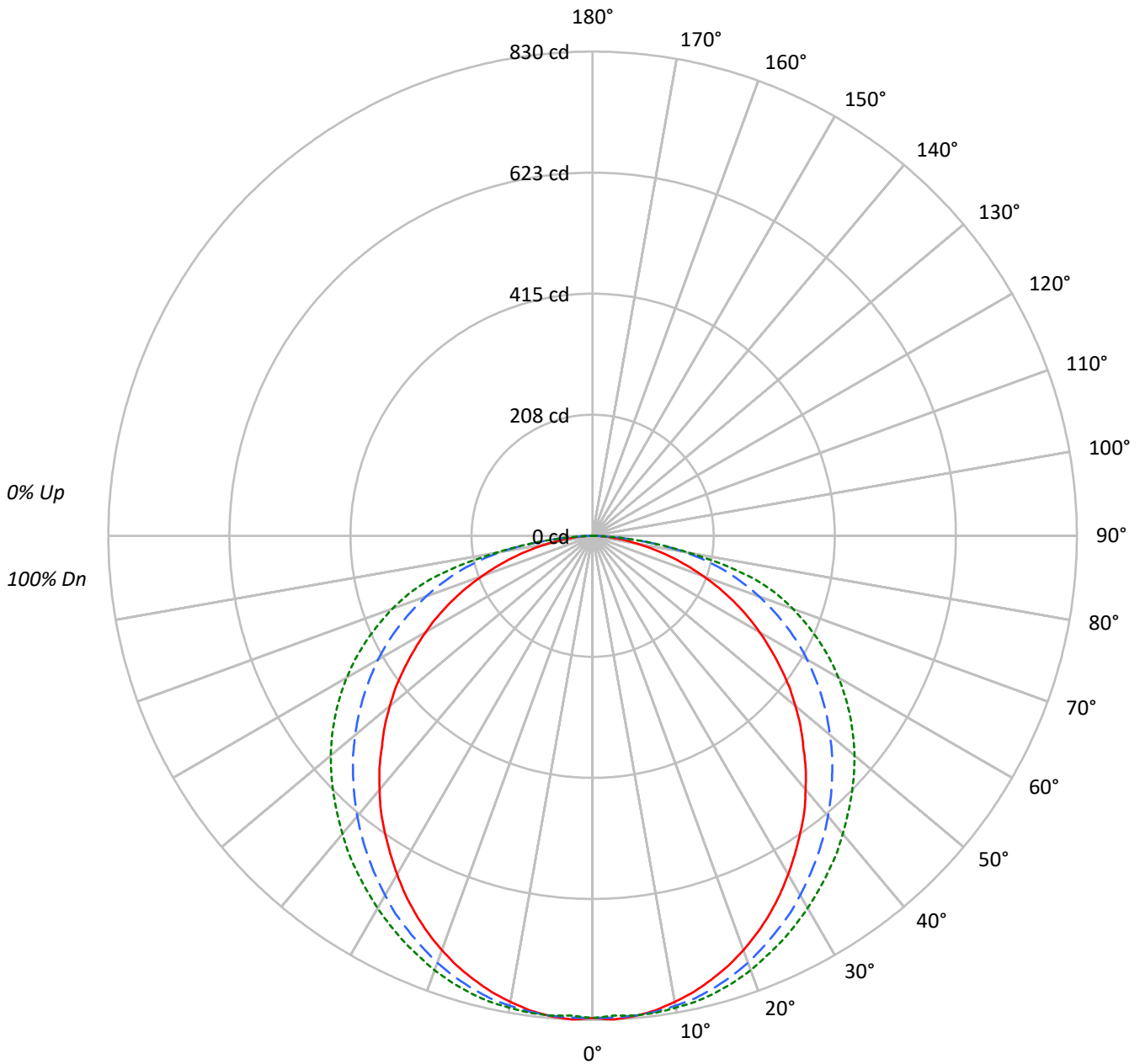
Lumens per Lamp: N/A
Luminaire Lumens: 2586.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82								
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67								
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56								
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47								
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41								
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35								
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1167	1167	1167
5°	1171	1170	1170
10°	1163	1172	1177
15°	1150	1173	1185
20°	1135	1170	1190
25°	1116	1164	1194
30°	1092	1159	1201
35°	1070	1156	1212
40°	1046	1156	1229
45°	1019	1159	1253
50°	996	1166	1286
55°	967	1179	1326
60°	933	1198	1374
65°	892	1221	1432
70°	828	1251	1505
75°	750	1295	1574
80°	632	1298	1353
85°	484	981	981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.0
10°-20°	225.8	8.7
20°-30°	342.9	13.3
30°-40°	417.1	16.1
40°-50°	444.1	17.2
50°-60°	423.0	16.4
60°-70°	353.7	13.7
70°-80°	235.8	9.1
80°-90°	65.2	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°	647.1	25.0
0°-40°	1064.2	41.2
0°-60°	1931.3	74.7
0°-90°	2586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	827	822	826	826	826	78
15°	787	789	803	809	811	222
25°	716	726	747	760	767	330
35°	621	639	671	693	704	388
45°	511	538	581	613	628	395
55°	393	427	479	521	539	351
65°	267	306	366	411	429	264
75°	138	181	237	278	289	146
85°	30	56	61	60	61	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.6	826.6	826.6	826.6	826.6
2.5°	830.0	824.0	826.6	826.6	823.2
5°	826.6	821.5	825.8	825.8	825.8
7.5°	820.7	816.4	823.2	824.9	824.9
10°	811.3	809.6	818.1	820.7	821.5
12.5°	801.0	800.2	812.1	815.5	818.1
15°	787.3	789.1	802.7	808.7	811.3
17.5°	772.9	776.2	791.6	800.2	802.7
20°	755.8	760.9	778.8	787.3	792.5
22.5°	737.0	744.7	763.4	773.6	779.6
25°	716.5	725.8	747.2	760.0	766.9
27.5°	694.3	706.3	731.0	745.4	752.3
30°	670.3	684.0	711.4	728.5	737.0
32.5°	645.6	661.8	691.7	710.5	720.7
35°	620.8	638.8	671.2	693.4	703.6
37.5°	596.1	613.9	649.9	673.7	686.6
40°	567.9	589.2	627.7	654.1	667.0
42.5°	540.6	563.5	604.6	633.6	647.3
45°	510.6	538.0	580.6	613.2	627.7
47.5°	483.3	510.6	556.8	591.0	607.2
50°	453.5	482.4	531.1	568.8	585.9
52.5°	424.4	454.3	505.5	545.7	562.8
55°	392.9	426.9	479.1	520.9	538.8
57.5°	361.2	398.0	451.7	495.3	513.3
60°	330.5	368.0	424.4	468.0	486.8
62.5°	299.8	337.3	396.2	440.6	458.6
65°	267.2	306.5	365.5	410.7	428.7
67.5°	234.8	275.8	334.7	380.0	397.1
70°	200.6	244.3	303.2	347.6	364.7
72.5°	169.1	212.6	270.7	314.3	330.5
75°	137.5	181.0	237.4	277.6	288.7
77.5°	106.8	150.3	200.6	227.2	229.7
80°	77.7	118.7	159.7	167.4	166.5
82.5°	52.0	88.8	110.2	111.0	113.5
85°	29.9	55.5	60.6	59.8	60.6
87.5°	12.0	19.6	17.1	12.8	12.8
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)