

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: P843002

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P843002
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: 24CZ2-30HE-S-UNV-B40
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

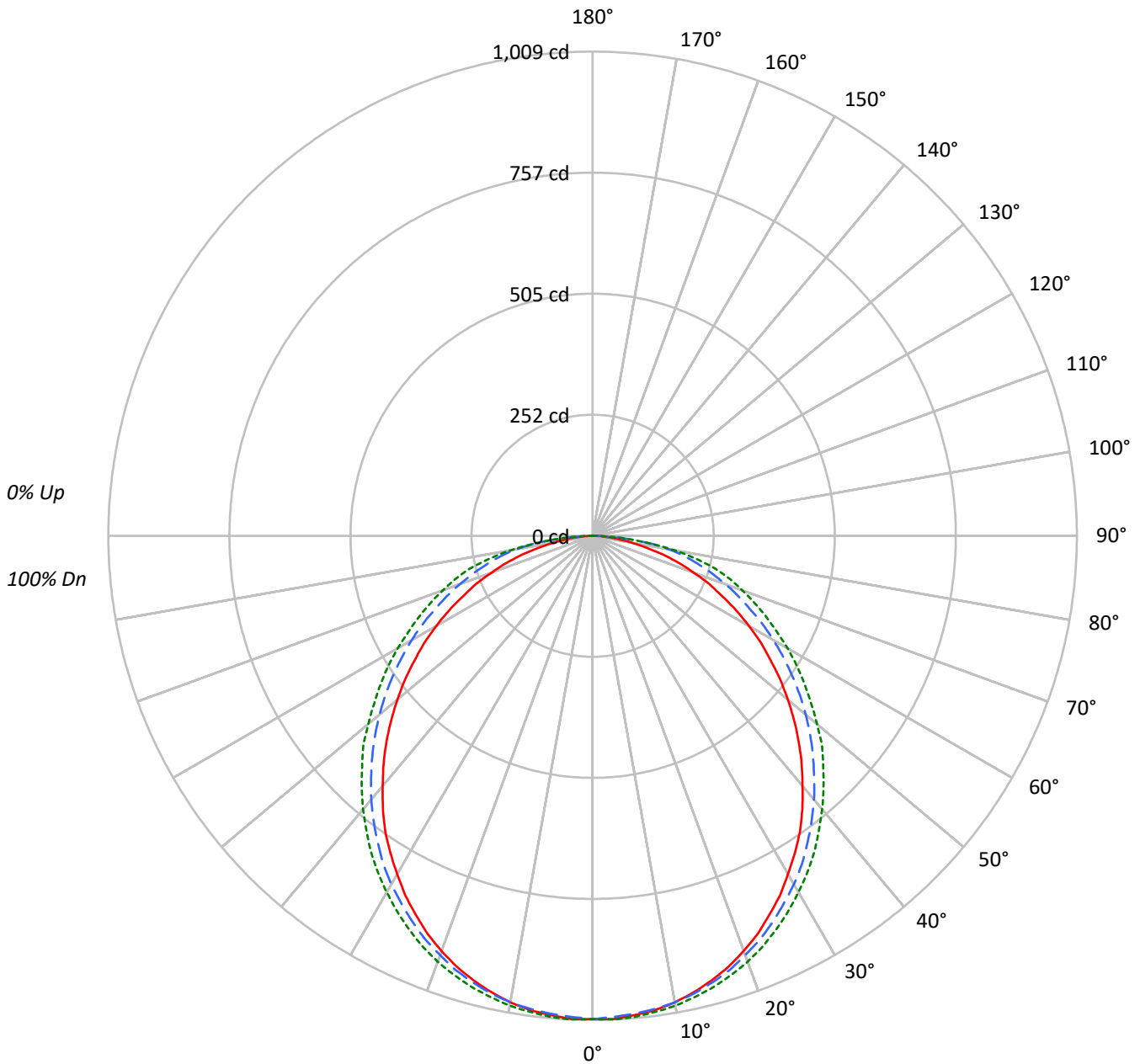
Lumens per Lamp: N/A
Luminaire Lumens: 2867.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	1422	1422	1422
5°	1420	1417	1426
10°	1415	1415	1425
15°	1401	1408	1423
20°	1383	1396	1418
25°	1357	1383	1410
30°	1327	1367	1398
35°	1298	1345	1387
40°	1253	1322	1371
45°	1212	1296	1356
50°	1166	1272	1340
55°	1114	1248	1327
60°	1062	1229	1324
65°	995	1207	1332
70°	921	1214	1368
75°	824	1237	1445
80°	666	1310	1413
85°	500	1150	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	3.3
10°-20°	272.5	9.5
20°-30°	409.6	14.3
30°-40°	487.8	17.0
40°-50°	499.3	17.4
50°-60°	449.5	15.7
60°-70°	353.0	12.3
70°-80°	229.1	8.0
80°-90°	70.9	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°	777.4	27.1
0°-40°	1265.2	44.1
0°-60°	2214.0	77.2
0°-90°	2867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1003	1004	1000	1005	1006	95
15°	959	962	964	972	974	270
25°	872	879	888	902	905	401
35°	753	762	780	800	805	470
45°	607	622	649	674	679	468
55°	453	473	507	534	539	406
65°	298	321	362	392	399	296
75°	151	180	227	258	265	160
85°	31	57	71	69	69	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.2	1007.2	1007.2	1007.2	1007.2
2.5°	1008.1	1008.1	1003.5	1008.1	1009.0
5°	1002.6	1004.5	999.9	1005.4	1006.3
7.5°	997.1	997.1	994.4	999.9	1000.9
10°	987.2	988.0	987.2	993.5	994.4
12.5°	974.4	976.2	977.2	983.5	984.4
15°	959.0	961.7	963.5	971.7	973.6
17.5°	941.6	944.4	948.9	958.0	959.8
20°	920.7	924.3	929.8	941.6	944.4
22.5°	898.0	901.6	910.7	921.6	926.2
25°	871.5	878.8	887.9	902.5	905.2
27.5°	845.1	851.4	863.3	878.8	882.5
30°	814.1	824.1	838.7	854.2	857.8
32.5°	784.1	794.1	811.4	827.8	832.3
35°	753.1	762.2	780.4	799.5	805.0
37.5°	717.6	729.4	749.5	768.6	774.1
40°	680.3	694.9	717.6	737.7	744.0
42.5°	644.7	660.2	683.0	704.9	712.1
45°	607.4	622.0	649.3	673.9	679.4
47.5°	569.1	585.6	614.7	639.2	648.3
50°	530.9	548.3	579.2	604.7	610.2
52.5°	492.6	510.9	543.7	571.0	573.7
55°	452.6	472.7	507.2	533.7	539.2
57.5°	416.2	433.5	470.8	498.1	504.5
60°	376.1	395.2	435.3	460.8	468.9
62.5°	337.8	357.9	399.8	425.3	432.5
65°	297.8	320.6	361.5	391.6	398.8
67.5°	263.2	285.1	328.7	357.9	365.2
70°	223.1	247.8	294.2	324.2	331.5
72.5°	188.5	214.0	260.5	289.6	300.5
75°	151.2	180.3	226.8	257.7	265.0
77.5°	114.8	148.5	195.7	219.4	219.4
80°	82.0	117.5	161.2	172.2	173.9
82.5°	53.8	88.3	119.3	118.4	118.4
85°	30.9	57.4	71.0	69.2	69.2
87.5°	11.8	23.7	25.5	25.5	24.6
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)