

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: P881153

Luminaire Tested: **24CZ2-30VHE-HRP-UNV-B40**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30VHE-HRP-UNV-B40
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

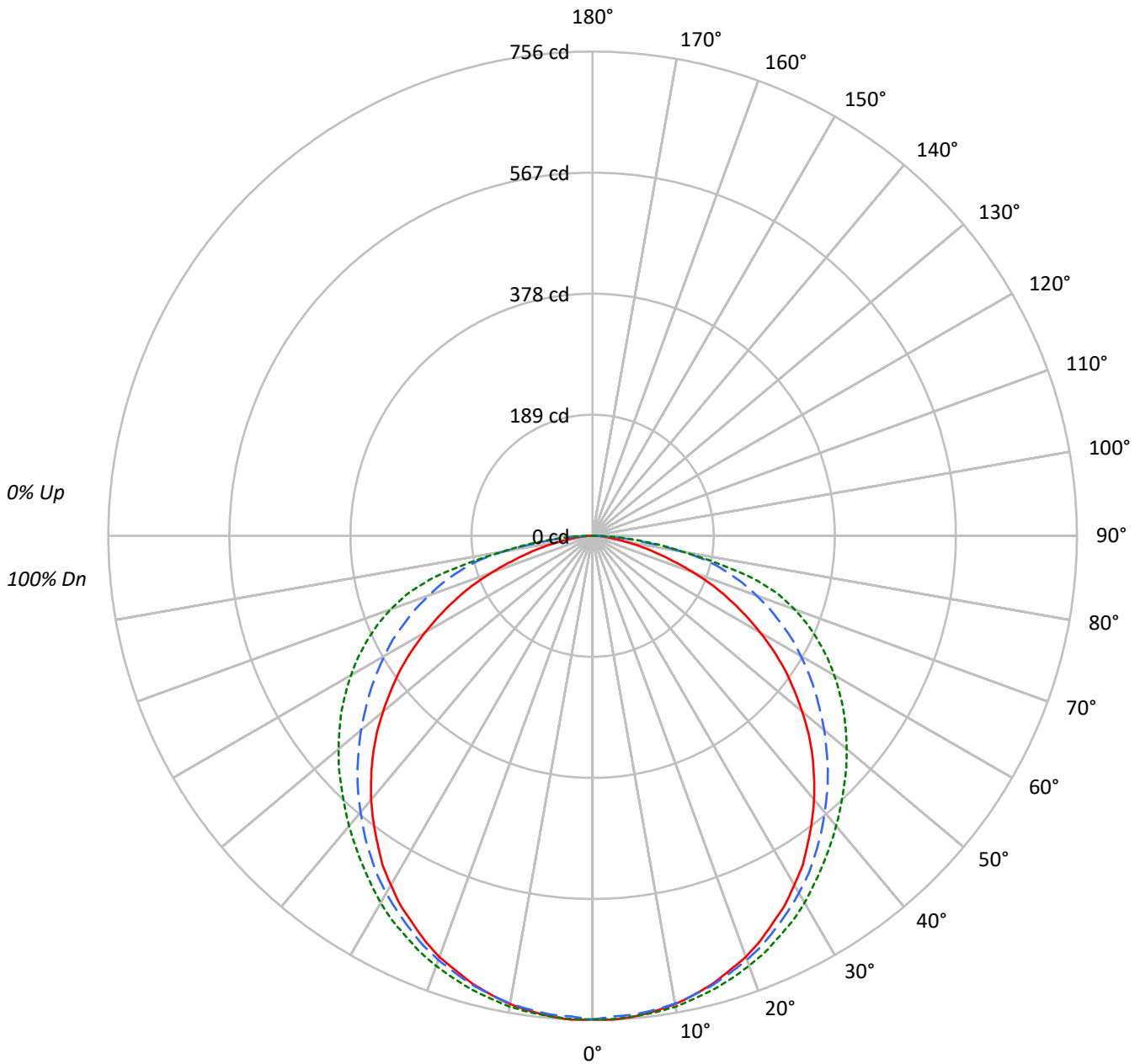
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2328.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
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 (Ain): 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	101	96	93	96	93	90	92	90	87	89	86	84	82								
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56								
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48								
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41								
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36								
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28								
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25								
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1066	1066	1066
5°	1067	1063	1067
10°	1064	1063	1070
15°	1058	1061	1071
20°	1051	1058	1073
25°	1038	1053	1074
30°	1026	1050	1079
35°	1009	1044	1080
40°	991	1038	1090
45°	969	1037	1107
50°	937	1036	1136
55°	904	1043	1178
60°	853	1059	1230
65°	787	1084	1299
70°	688	1122	1383
75°	558	1179	1429
80°	412	1157	1157
85°	316	852	964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.1
10°-20°	205.5	8.8
20°-30°	312.8	13.4
30°-40°	379.8	16.3
40°-50°	401.3	17.2
50°-60°	378.7	16.3
60°-70°	314.8	13.5
70°-80°	207.1	8.9
80°-90°	56.5	2.4
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°	589.8	25.3
0°-40°	969.6	41.7
0°-60°	1749.6	75.2
0°-90°	2328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	753	753	750	753	753	72
15°	724	725	726	733	733	204
25°	667	670	676	688	690	308
35°	586	593	606	622	627	367
45°	485	495	519	545	555	374
55°	367	383	424	464	479	327
65°	236	263	325	372	389	233
75°	102	149	216	256	262	110
85°	20	43	53	58	60	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.3	755.3	755.3	755.3	755.3
2.5°	756.3	755.3	751.4	755.3	755.3
5°	753.4	753.4	750.4	753.4	753.4
7.5°	748.5	748.5	746.5	750.4	750.4
10°	742.6	742.6	741.7	746.5	746.5
12.5°	733.9	734.8	733.9	739.7	739.7
15°	724.1	725.1	726.1	732.9	732.9
17.5°	711.5	713.4	715.4	723.1	724.1
20°	699.8	700.7	704.6	713.4	714.4
22.5°	684.2	687.1	692.0	700.7	703.7
25°	666.6	670.5	676.4	688.1	690.0
27.5°	650.0	653.0	660.8	673.5	677.4
30°	629.6	634.5	644.2	656.9	661.8
32.5°	610.1	615.0	626.7	640.2	644.2
35°	585.8	592.6	606.1	621.8	626.7
37.5°	562.3	569.2	585.8	603.3	609.2
40°	537.9	545.7	563.4	583.8	591.5
42.5°	511.6	522.4	541.9	564.3	573.1
45°	485.3	495.1	519.4	544.8	554.6
47.5°	457.1	468.9	495.1	525.4	537.1
50°	426.9	441.5	471.8	504.8	517.6
52.5°	396.7	413.2	447.4	484.3	498.1
55°	367.4	383.0	423.9	464.0	478.6
57.5°	335.2	354.8	399.6	442.5	457.1
60°	302.1	323.6	375.2	420.0	435.6
62.5°	269.0	293.4	351.8	396.7	413.2
65°	235.8	263.2	324.6	372.3	388.9
67.5°	203.6	233.9	299.2	347.0	363.5
70°	166.7	204.7	271.8	318.7	335.2
72.5°	132.6	176.5	245.5	289.5	304.1
75°	102.3	149.2	216.3	256.3	262.1
77.5°	75.0	121.8	186.2	199.7	200.8
80°	50.7	97.4	142.4	140.3	142.4
82.5°	33.1	73.1	89.6	100.4	101.3
85°	19.5	42.9	52.6	58.5	59.5
87.5°	9.7	14.6	18.5	19.5	21.4
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)