

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: P881124

Luminaire Tested: **22CZ2-44VHE-HRP-UNV-B50**

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: P881124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-HRP-UNV-B50
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

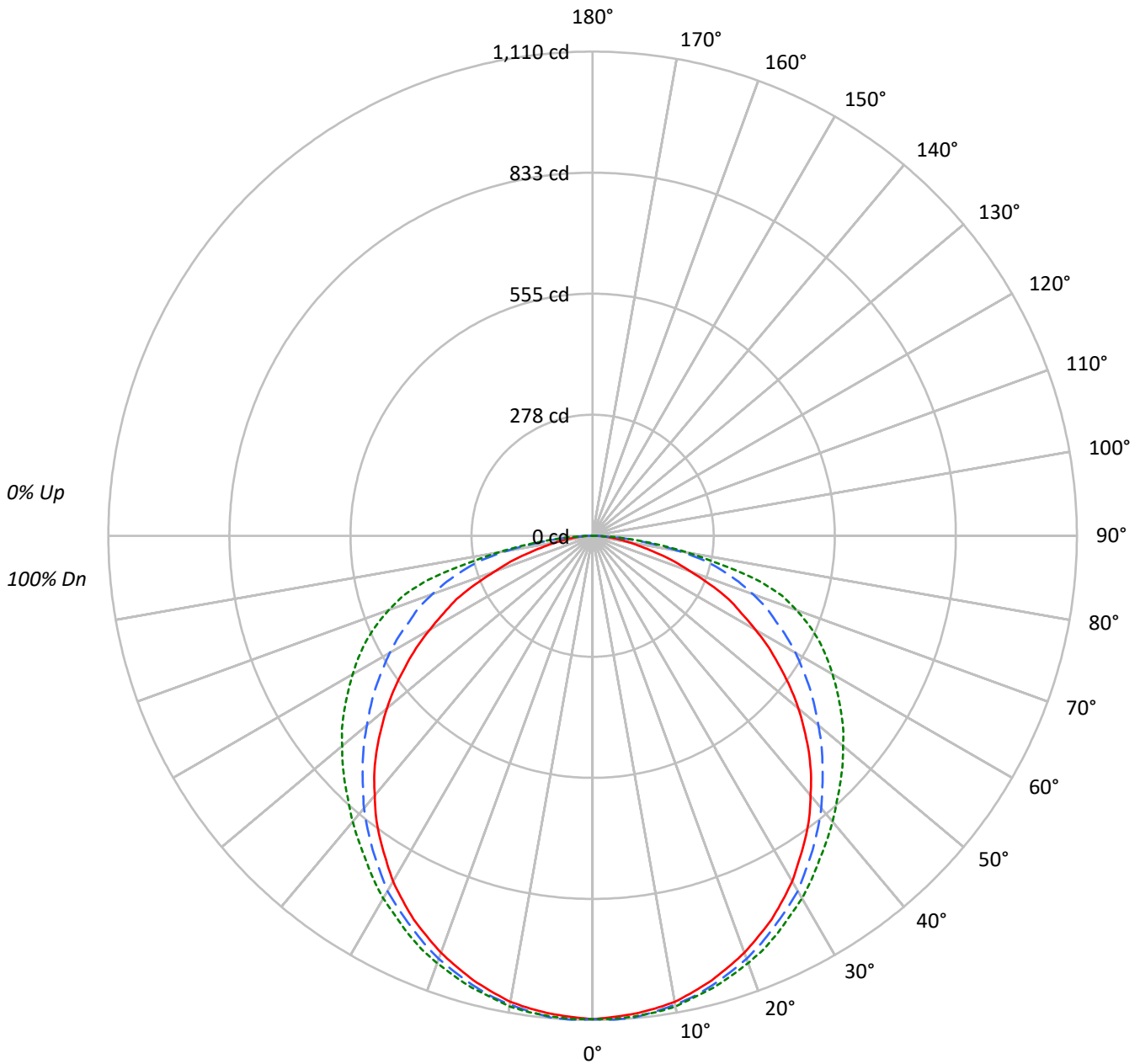
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3366.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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			100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82			82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68			68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56			56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48			48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41			41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36			36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31			31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28			28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25			25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23			23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3145	3145	3145
5°	3133	3157	3151
10°	3126	3145	3157
15°	3100	3131	3150
20°	3071	3116	3148
25°	3039	3091	3145
30°	2998	3082	3145
35°	2942	3045	3140
40°	2878	3020	3170
45°	2811	2991	3221
50°	2718	2981	3308
55°	2594	3004	3435
60°	2446	3048	3603
65°	2310	3108	3850
70°	1973	3241	4122
75°	1653	3377	4283
80°	1355	3262	3574
85°	1175	2416	2624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.1
10°-20°	300.5	8.9
20°-30°	455.4	13.5
30°-40°	549.9	16.3
40°-50°	577.8	17.2
50°-60°	543.6	16.2
60°-70°	453.3	13.5
70°-80°	300.4	8.9
80°-90°	80.0	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°	861.0	25.6
0°-40°	1410.9	41.9
0°-60°	2532.3	75.2
0°-90°	3366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1100	1102	1108	1108	1106	105
15°	1055	1060	1066	1070	1072	298
25°	970	977	987	1000	1004	447
35°	849	858	879	898	907	531
45°	701	711	745	783	803	540
55°	524	548	607	669	694	469
65°	344	374	463	539	573	335
75°	151	210	308	372	391	164
85°	36	55	74	81	81	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.4	1108.4	1108.4	1108.4	1108.4
2.5°	1104.1	1106.2	1110.5	1110.5	1108.4
5°	1099.9	1102.0	1108.4	1108.4	1106.2
7.5°	1093.5	1095.8	1099.9	1104.1	1102.0
10°	1085.0	1087.1	1091.4	1095.8	1095.8
12.5°	1070.2	1072.3	1080.8	1083.1	1083.1
15°	1055.3	1059.6	1065.9	1070.2	1072.3
17.5°	1036.2	1040.5	1049.0	1057.4	1057.4
20°	1017.1	1021.4	1032.0	1040.5	1042.4
22.5°	993.8	1000.2	1010.8	1021.4	1025.6
25°	970.5	976.8	987.4	1000.2	1004.4
27.5°	942.7	949.0	964.1	979.0	980.9
30°	915.1	921.5	940.6	953.3	959.9
32.5°	881.2	889.7	908.7	927.8	934.2
35°	849.3	857.8	879.0	898.4	906.6
37.5°	815.4	823.7	847.2	870.8	881.2
40°	777.0	787.8	815.4	840.9	855.7
42.5°	741.2	751.8	779.3	813.3	828.1
45°	700.6	711.3	745.4	783.4	802.7
47.5°	658.2	671.0	711.3	758.1	777.0
50°	615.8	630.6	675.2	728.2	749.4
52.5°	571.0	590.3	641.3	698.7	724.0
55°	524.4	547.9	607.3	668.8	694.3
57.5°	479.8	501.3	571.0	637.0	664.6
60°	431.0	458.6	537.1	605.0	634.9
62.5°	384.4	414.1	501.3	573.4	605.0
65°	344.1	373.6	462.9	539.2	573.4
67.5°	290.8	331.3	431.0	503.2	537.1
70°	237.8	292.9	390.7	465.0	496.8
72.5°	197.5	250.5	350.4	424.7	454.4
75°	150.8	210.2	308.0	371.6	390.7
77.5°	112.6	174.2	263.2	295.3	297.2
80°	82.9	133.6	199.6	210.2	218.7
82.5°	57.5	93.3	129.6	142.1	146.6
85°	36.1	55.2	74.2	80.6	80.6
87.5°	19.1	21.2	25.5	25.5	25.5
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)