

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: P881202

Luminaire Tested: **24CZ2-45VHE-RDP-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: P881202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45VHE-RDP-UNV-B50
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

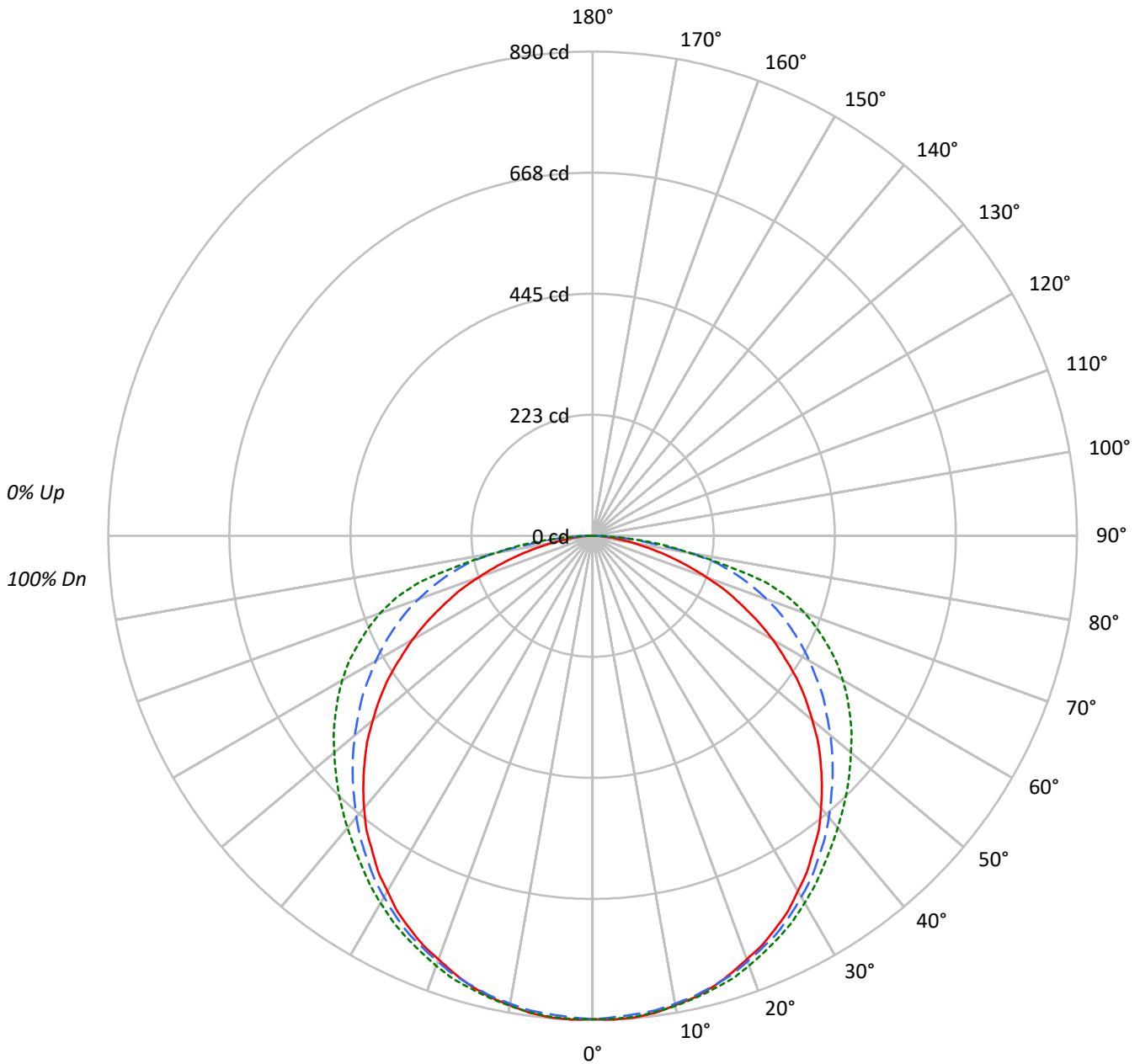
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2826.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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									
RC	80									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	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1254	1254	1254
5°	1259	1251	1257
10°	1256	1252	1258
15°	1253	1251	1260
20°	1244	1250	1263
25°	1240	1253	1266
30°	1229	1250	1270
35°	1217	1246	1275
40°	1204	1245	1291
45°	1184	1245	1320
50°	1157	1253	1360
55°	1128	1273	1421
60°	1080	1298	1499
65°	1011	1343	1592
70°	919	1406	1712
75°	779	1483	1789
80°	615	1492	1446
85°	455	1135	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.0
10°-20°	242.6	8.6
20°-30°	371.0	13.1
30°-40°	453.5	16.0
40°-50°	483.4	17.1
50°-60°	462.2	16.4
60°-70°	391.5	13.9
70°-80°	263.1	9.3
80°-90°	74.3	2.6
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°	697.9	24.7
0°-40°	1151.5	40.7
0°-60°	2097.1	74.2
0°-90°	2826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	889	887	883	887	887	84
15°	858	858	856	863	862	242
25°	796	799	805	812	813	367
35°	706	712	723	737	740	443
45°	593	603	624	650	662	457
55°	458	475	517	558	578	408
65°	303	334	402	456	477	301
75°	143	195	272	318	328	153
85°	28	58	70	76	79	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.7	888.7	888.7	888.7	888.7
2.5°	890.1	890.1	885.9	888.7	888.7
5°	888.7	887.4	883.1	887.4	887.4
7.5°	884.5	883.1	880.3	884.5	883.1
10°	876.2	876.2	873.3	877.5	877.5
12.5°	869.0	867.7	866.3	871.9	870.5
15°	857.8	857.8	856.4	863.4	862.1
17.5°	843.9	845.2	846.7	852.3	853.7
20°	828.4	831.3	832.6	841.1	841.1
22.5°	814.4	815.8	818.7	827.0	827.0
25°	796.2	799.0	804.6	811.5	813.1
27.5°	777.9	779.4	786.4	796.2	797.6
30°	754.1	758.3	766.8	777.9	779.4
32.5°	733.1	737.2	747.1	758.3	761.2
35°	706.4	712.0	723.3	737.2	740.1
37.5°	682.6	686.7	700.8	716.3	720.4
40°	653.3	661.5	675.6	693.8	700.8
42.5°	623.8	632.2	649.1	672.8	681.1
45°	593.0	602.8	623.8	650.4	661.5
47.5°	562.2	573.4	597.2	628.0	640.6
50°	527.0	541.1	570.5	605.5	619.6
52.5°	493.4	510.3	542.4	581.7	599.9
55°	458.3	475.1	517.3	557.9	577.5
57.5°	419.1	441.4	487.8	534.1	555.0
60°	382.7	403.7	459.8	510.3	531.2
62.5°	343.4	371.5	431.7	485.0	506.0
65°	302.8	333.7	402.3	455.5	476.6
67.5°	266.4	300.0	372.9	426.1	447.0
70°	222.8	264.9	340.7	393.8	414.9
72.5°	182.2	228.4	307.0	358.9	378.5
75°	142.9	194.8	272.0	318.2	328.1
77.5°	106.6	161.1	235.4	255.1	248.2
80°	75.7	129.1	183.6	173.7	177.9
82.5°	49.1	98.1	113.6	129.1	133.0
85°	28.1	57.5	70.1	75.7	78.6
87.5°	12.6	21.1	28.1	28.1	26.7
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)