

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: P881200

Luminaire Tested: **24CZ2-45VHE-RDP-UNV-B35**

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: P881200
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-B35
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

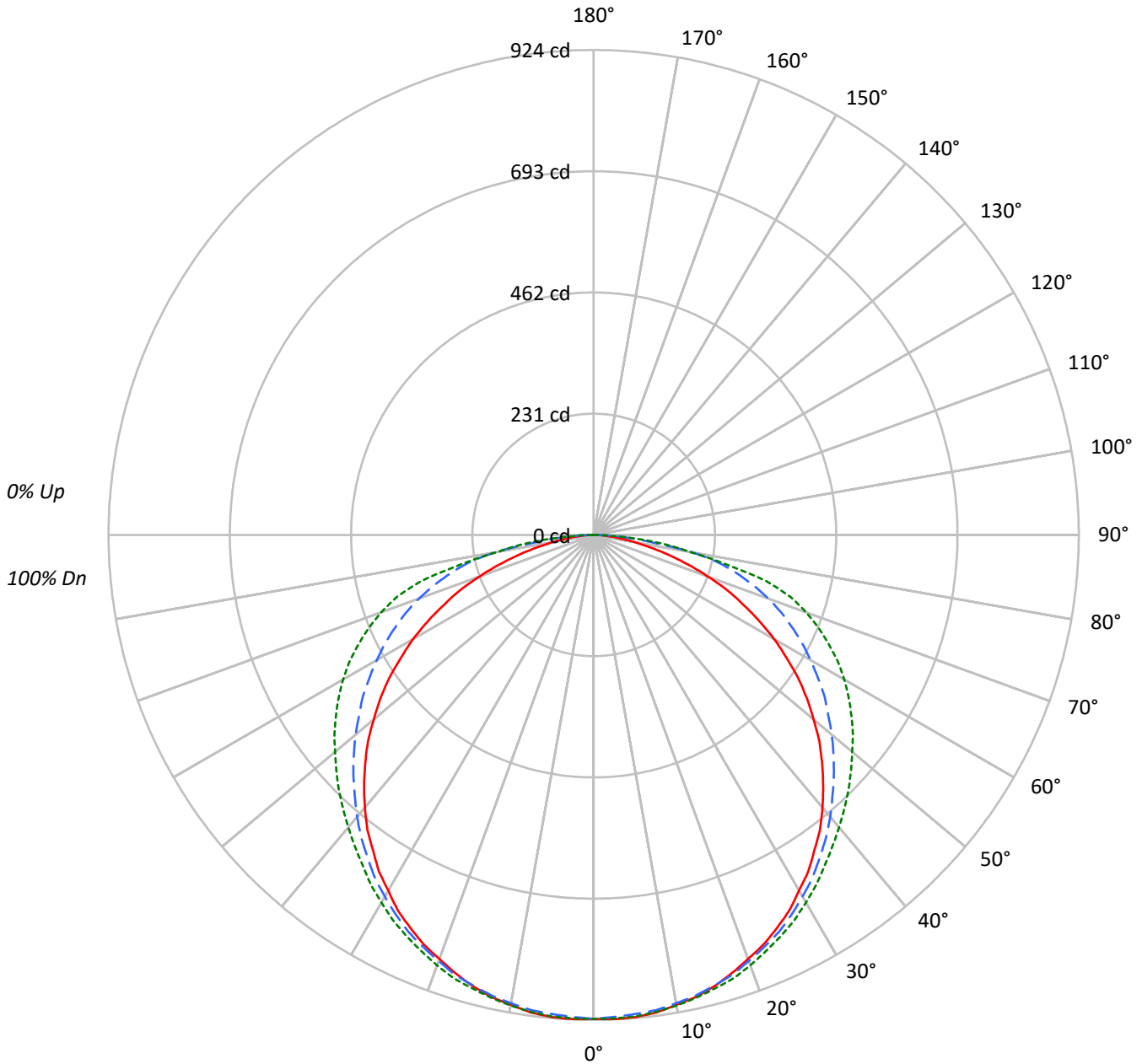
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2932.0 lumens
Efficiency: N/A
Efficacy: 86.2 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°	1301	1301	1301
5°	1306	1298	1304
10°	1303	1298	1305
15°	1300	1298	1307
20°	1291	1298	1311
25°	1286	1300	1314
30°	1275	1297	1318
35°	1263	1293	1323
40°	1249	1292	1340
45°	1228	1292	1370
50°	1200	1300	1412
55°	1170	1321	1474
60°	1121	1346	1556
65°	1049	1394	1651
70°	954	1459	1776
75°	809	1539	1856
80°	638	1547	1500
85°	471	1177	1320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.0
10°-20°	251.7	8.6
20°-30°	384.9	13.1
30°-40°	470.5	16.0
40°-50°	501.5	17.1
50°-60°	479.5	16.4
60°-70°	406.2	13.9
70°-80°	273.0	9.3
80°-90°	77.0	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°	724.1	24.7
0°-40°	1194.7	40.7
0°-60°	2175.7	74.2
0°-90°	2932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	922	921	916	921	921	88
15°	890	890	889	896	894	251
25°	826	829	835	842	844	381
35°	733	739	750	765	768	459
45°	615	625	647	675	686	474
55°	476	493	537	579	599	424
65°	314	346	417	473	494	312
75°	148	202	282	330	340	159
85°	29	60	73	78	82	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.1	922.1	922.1	922.1	922.1
2.5°	923.5	923.5	919.1	922.1	922.1
5°	922.1	920.7	916.3	920.7	920.7
7.5°	917.7	916.3	913.3	917.7	916.3
10°	909.0	909.0	906.0	910.4	910.4
12.5°	901.6	900.2	898.8	904.6	903.2
15°	890.0	890.0	888.6	895.8	894.4
17.5°	875.5	876.9	878.5	884.3	885.7
20°	859.5	862.4	863.9	872.7	872.7
22.5°	845.0	846.4	849.4	858.0	858.0
25°	826.1	828.9	834.7	842.0	843.6
27.5°	807.1	808.6	815.9	826.1	827.5
30°	782.3	786.7	795.6	807.1	808.6
32.5°	760.6	764.9	775.1	786.7	789.7
35°	732.9	738.7	750.4	764.9	767.9
37.5°	708.2	712.5	727.1	743.1	747.4
40°	677.8	686.3	701.0	719.9	727.1
42.5°	647.1	656.0	673.4	698.0	706.7
45°	615.2	625.4	647.1	674.8	686.3
47.5°	583.2	594.9	619.6	651.6	664.6
50°	546.7	561.4	591.9	628.3	642.9
52.5°	512.0	529.4	562.8	603.6	622.4
55°	475.5	492.9	536.7	578.8	599.1
57.5°	434.8	458.0	506.1	554.1	575.9
60°	397.1	418.8	477.0	529.4	551.1
62.5°	356.3	385.4	447.9	503.1	525.0
65°	314.1	346.2	417.4	472.6	494.5
67.5°	276.4	311.3	386.8	442.1	463.8
70°	231.2	274.8	353.5	408.6	430.4
72.5°	189.0	237.0	318.5	372.4	392.7
75°	148.3	202.1	282.2	330.2	340.4
77.5°	110.6	167.1	244.3	264.7	257.5
80°	78.5	133.9	190.4	180.2	184.6
82.5°	51.0	101.8	117.9	133.9	138.0
85°	29.1	59.6	72.7	78.5	81.5
87.5°	13.1	21.9	29.1	29.1	27.7
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)