

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: P881231

Luminaire Tested: **24CZ2-55VHE-RDP-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: P881231
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: 24CZ2-55VHE-RDP-UNV-B40
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

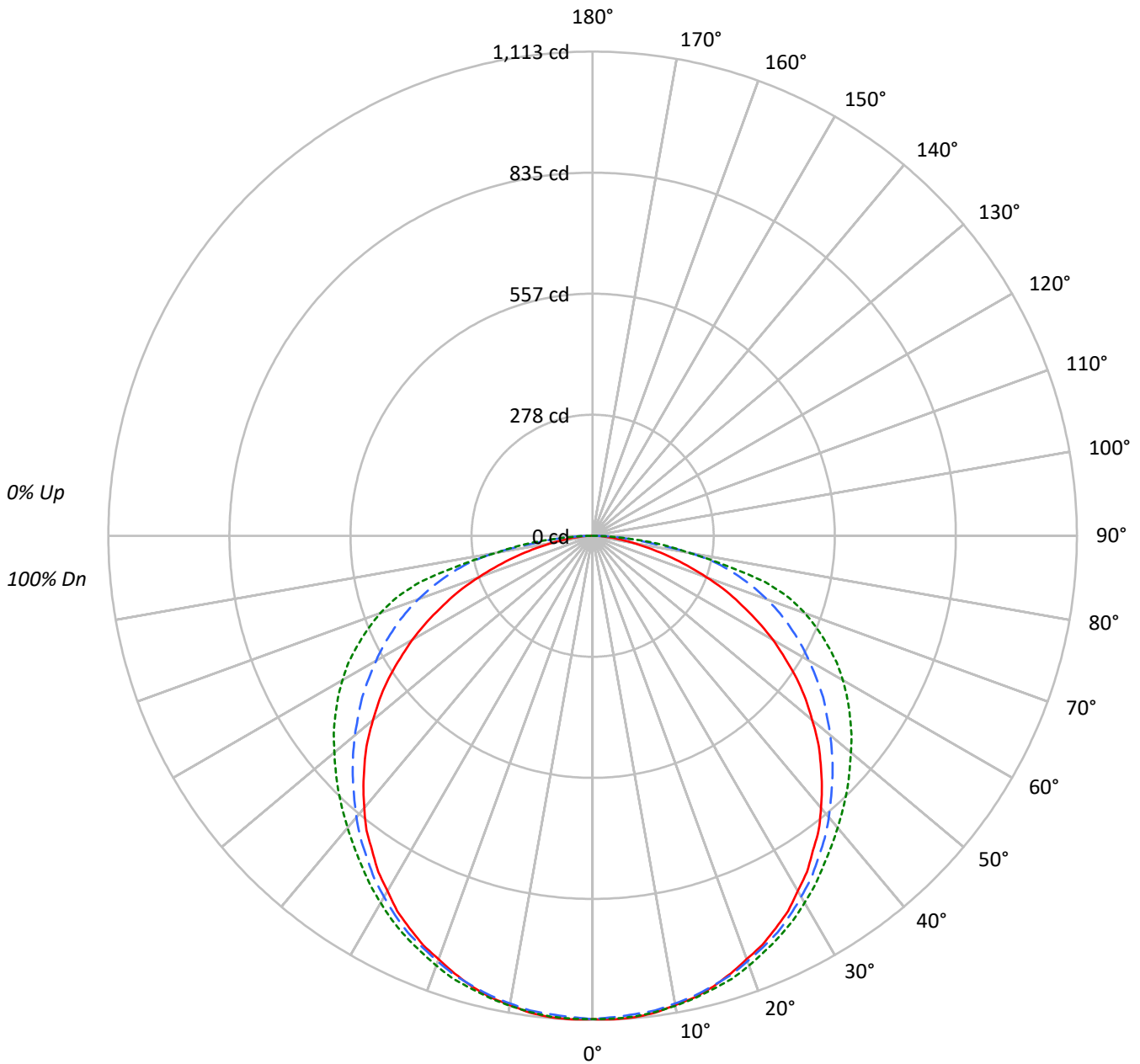
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3533.0 lumens
Efficiency: N/A
Efficacy: 82.2 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): 43
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°	1568	1568	1568
5°	1574	1564	1572
10°	1570	1565	1572
15°	1567	1564	1575
20°	1555	1563	1579
25°	1550	1566	1583
30°	1536	1562	1588
35°	1522	1558	1594
40°	1505	1556	1614
45°	1480	1556	1651
50°	1446	1566	1701
55°	1410	1591	1777
60°	1351	1622	1875
65°	1264	1679	1990
70°	1150	1757	2140
75°	974	1854	2237
80°	769	1865	1808
85°	568	1419	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.0
10°-20°	303.3	8.6
20°-30°	463.8	13.1
30°-40°	567.0	16.0
40°-50°	604.3	17.1
50°-60°	577.8	16.4
60°-70°	489.5	13.9
70°-80°	329.0	9.3
80°-90°	92.8	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°	872.6	24.7
0°-40°	1439.6	40.7
0°-60°	2621.7	74.2
0°-90°	3533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1111	1109	1104	1109	1109	106
15°	1072	1072	1071	1079	1078	302
25°	995	999	1006	1015	1016	459
35°	883	890	904	922	925	553
45°	741	754	780	813	827	572
55°	573	594	647	698	722	510
65°	378	417	503	570	596	376
75°	179	244	340	398	410	191
85°	35	72	88	95	98	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.1	1111.1	1111.1	1111.1	1111.1
2.5°	1112.8	1112.8	1107.5	1111.1	1111.1
5°	1111.1	1109.4	1104.1	1109.4	1109.4
7.5°	1105.8	1104.1	1100.5	1105.8	1104.1
10°	1095.3	1095.3	1091.8	1097.1	1097.1
12.5°	1086.5	1084.7	1083.0	1090.0	1088.3
15°	1072.4	1072.4	1070.7	1079.4	1077.7
17.5°	1055.0	1056.7	1058.6	1065.6	1067.3
20°	1035.6	1039.2	1040.9	1051.5	1051.5
22.5°	1018.2	1019.9	1023.5	1033.9	1033.9
25°	995.4	998.8	1005.9	1014.6	1016.5
27.5°	972.5	974.4	983.1	995.4	997.1
30°	942.7	948.0	958.6	972.5	974.4
32.5°	916.5	921.7	934.0	948.0	951.6
35°	883.2	890.2	904.2	921.7	925.3
37.5°	853.4	858.5	876.1	895.5	900.6
40°	816.8	827.0	844.7	867.4	876.1
42.5°	779.8	790.4	811.5	841.1	851.5
45°	741.3	753.6	779.8	813.2	827.0
47.5°	702.8	716.8	746.6	785.1	800.8
50°	658.8	676.4	713.2	757.0	774.7
52.5°	616.9	637.9	678.2	727.3	750.0
55°	572.9	594.0	646.7	697.5	722.0
57.5°	524.0	551.9	609.9	667.7	693.9
60°	478.5	504.6	574.8	637.9	664.1
62.5°	429.3	464.4	539.7	606.3	632.6
65°	378.5	417.2	502.9	569.5	595.8
67.5°	333.0	375.1	466.1	532.7	558.9
70°	278.6	331.1	425.9	492.3	518.7
72.5°	227.8	285.6	383.8	448.7	473.2
75°	178.7	243.5	340.0	397.9	410.2
77.5°	133.3	201.4	294.3	319.0	310.2
80°	94.6	161.4	229.5	217.2	222.5
82.5°	61.4	122.7	142.0	161.4	166.3
85°	35.1	71.9	87.6	94.6	98.2
87.5°	15.7	26.4	35.1	35.1	33.4
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)