

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: P881215

Luminaire Tested: **24CZ2-50VHE-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: P881215
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: 24CZ2-50VHE-RDP-UNV-B35
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

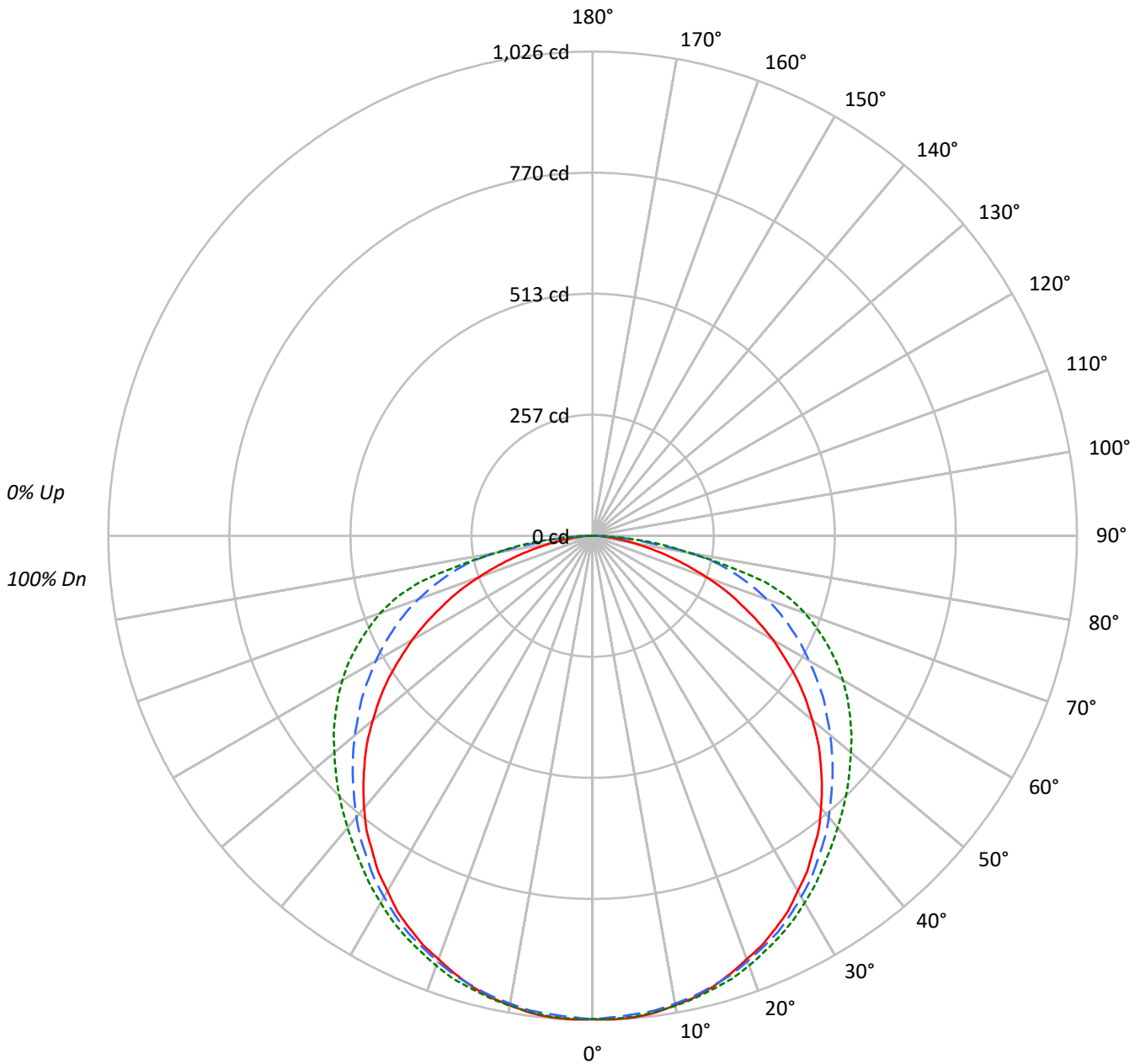
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3257.0 lumens
Efficiency: N/A
Efficacy: 85.7 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): 38
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°	1446	1446	1446
5°	1451	1442	1449
10°	1447	1442	1449
15°	1444	1442	1452
20°	1434	1441	1456
25°	1429	1444	1459
30°	1416	1440	1464
35°	1403	1436	1470
40°	1387	1435	1488
45°	1364	1435	1522
50°	1334	1444	1568
55°	1300	1467	1638
60°	1245	1496	1728
65°	1165	1548	1834
70°	1060	1620	1973
75°	898	1710	2062
80°	709	1719	1667
85°	523	1308	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.0
10°-20°	279.6	8.6
20°-30°	427.6	13.1
30°-40°	522.7	16.0
40°-50°	557.1	17.1
50°-60°	532.7	16.4
60°-70°	451.2	13.9
70°-80°	303.3	9.3
80°-90°	85.6	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°	804.4	24.7
0°-40°	1327.1	40.7
0°-60°	2416.9	74.2
0°-90°	3257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1023	1018	1023	1023	97
15°	989	989	987	995	994	279
25°	918	921	927	935	937	423
35°	814	821	834	850	853	510
45°	683	695	719	750	762	527
55°	528	548	596	643	666	470
65°	349	385	464	525	549	346
75°	165	224	314	367	378	176
85°	32	66	81	87	91	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1025.9	1025.9	1021.0	1024.3	1024.3
5°	1024.3	1022.7	1017.8	1022.7	1022.7
7.5°	1019.4	1017.8	1014.5	1019.4	1017.8
10°	1009.8	1009.8	1006.5	1011.4	1011.4
12.5°	1001.6	1000.0	998.4	1004.9	1003.3
15°	988.6	988.6	987.1	995.1	993.5
17.5°	972.5	974.1	975.9	982.3	983.9
20°	954.7	958.0	959.6	969.4	969.4
22.5°	938.6	940.2	943.5	953.1	953.1
25°	917.7	920.8	927.3	935.3	937.1
27.5°	896.5	898.2	906.3	917.7	919.2
30°	869.1	874.0	883.7	896.5	898.2
32.5°	844.9	849.7	861.0	874.0	877.3
35°	814.2	820.6	833.6	849.7	853.0
37.5°	786.7	791.4	807.7	825.5	830.3
40°	753.0	762.4	778.7	799.7	807.7
42.5°	718.9	728.7	748.1	775.4	785.0
45°	683.4	694.7	718.9	749.6	762.4
47.5°	647.9	660.8	688.3	723.8	738.3
50°	607.4	623.6	657.5	697.9	714.1
52.5°	568.7	588.1	625.2	670.5	691.4
55°	528.2	547.6	596.1	643.0	665.6
57.5°	483.0	508.8	562.2	615.6	639.7
60°	441.1	465.2	529.9	588.1	612.2
62.5°	395.8	428.1	497.6	558.9	583.2
65°	349.0	384.6	463.6	525.0	549.3
67.5°	307.0	345.8	429.7	491.1	515.2
70°	256.8	305.3	392.6	453.9	478.2
72.5°	210.0	263.3	353.8	413.6	436.2
75°	164.7	224.5	313.5	366.8	378.1
77.5°	122.9	185.7	271.3	294.1	286.0
80°	87.2	148.8	211.5	200.2	205.1
82.5°	56.6	113.1	130.9	148.8	153.3
85°	32.3	66.3	80.8	87.2	90.6
87.5°	14.5	24.3	32.3	32.3	30.8
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)