

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: P843134

Luminaire Tested: **24CZ2-55HE-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-RDP-UNV-B40
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

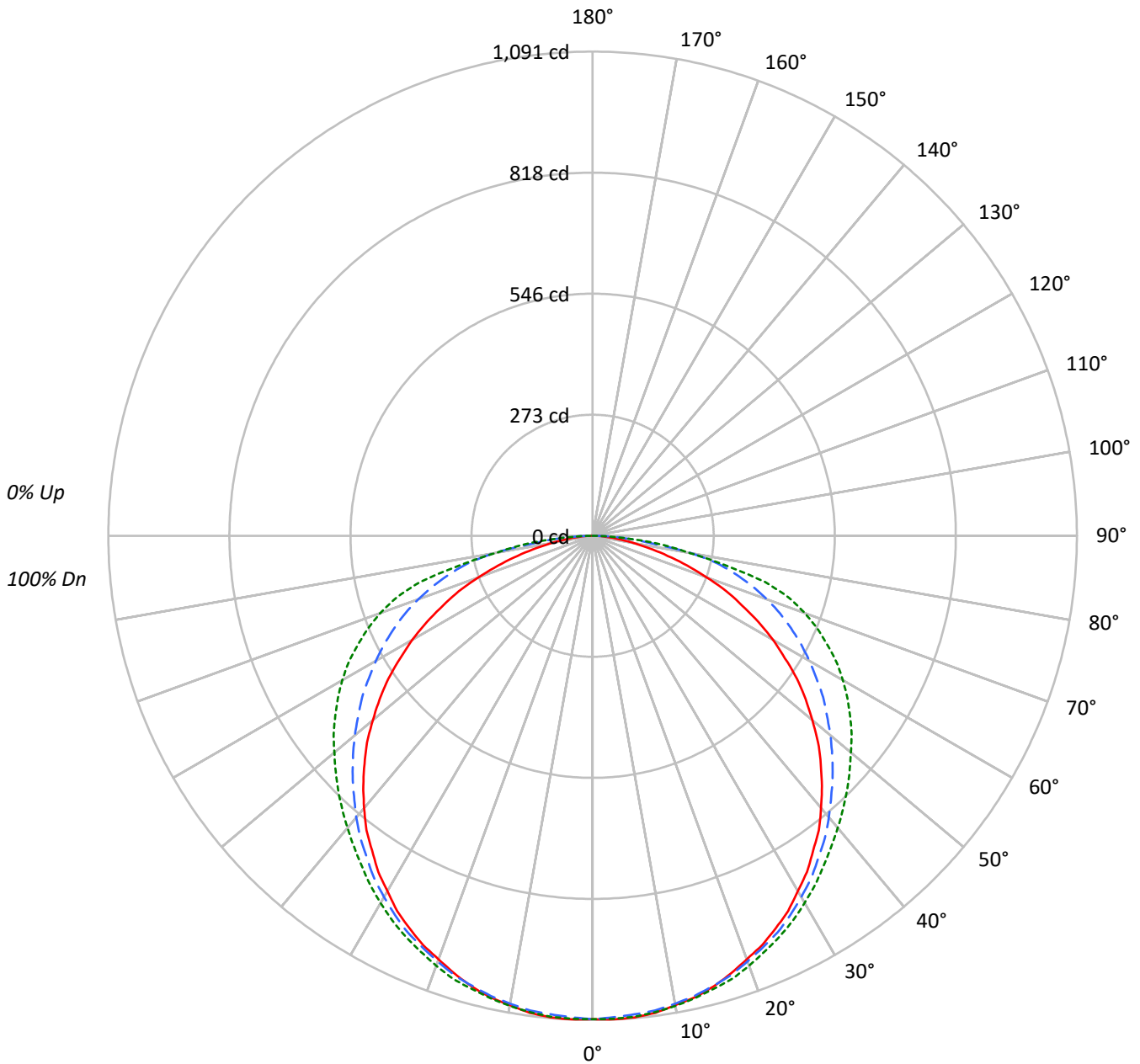
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3464.0 lumens
Efficiency: N/A
Efficacy: 82.5 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): 42
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P843134
CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P843134

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-B40

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	68	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°	1537	1537	1537
5°	1543	1534	1541
10°	1539	1534	1542
15°	1537	1534	1544
20°	1525	1533	1548
25°	1520	1536	1552
30°	1506	1532	1557
35°	1492	1527	1563
40°	1475	1526	1583
45°	1451	1526	1619
50°	1418	1535	1668
55°	1383	1560	1742
60°	1324	1591	1838
65°	1239	1647	1951
70°	1128	1723	2099
75°	956	1817	2193
80°	754	1829	1773
85°	557	1393	1556



TEST NUMBER: P843134

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	3.0
10°-20°	297.4	8.6
20°-30°	454.8	13.1
30°-40°	556.0	16.0
40°-50°	592.5	17.1
50°-60°	566.5	16.4
60°-70°	479.9	13.9
70°-80°	322.5	9.3
80°-90°	91.0	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°	855.5	24.7
0°-40°	1411.5	40.7
0°-60°	2570.5	74.2
0°-90°	3464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1089	1088	1082	1088	1088	103
15°	1052	1052	1050	1058	1057	296
25°	976	979	986	995	996	450
35°	866	873	886	904	907	542
45°	727	739	765	797	811	561
55°	562	582	634	684	708	500
65°	371	409	493	558	584	368
75°	175	239	333	390	402	188
85°	34	70	86	93	96	43
90°	0	0	0	0	0	



TEST NUMBER: P843134

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.3	1089.3	1089.3	1089.3	1089.3
2.5°	1091.0	1091.0	1085.8	1089.3	1089.3
5°	1089.3	1087.7	1082.5	1087.7	1087.7
7.5°	1084.2	1082.5	1079.0	1084.2	1082.5
10°	1073.8	1073.8	1070.5	1075.7	1075.7
12.5°	1065.3	1063.6	1061.8	1068.6	1067.0
15°	1051.6	1051.6	1049.8	1058.5	1056.6
17.5°	1034.4	1036.1	1037.8	1044.6	1046.5
20°	1015.4	1018.9	1020.6	1030.9	1030.9
22.5°	998.2	1000.0	1003.4	1013.7	1013.7
25°	976.0	979.3	986.2	994.9	996.5
27.5°	953.6	955.3	964.0	976.0	977.7
30°	924.4	929.6	939.8	953.6	955.3
32.5°	898.5	903.7	915.7	929.6	932.9
35°	866.0	872.8	886.5	903.7	907.2
37.5°	836.8	842.0	859.2	878.0	883.2
40°	800.7	810.9	828.1	850.5	859.2
42.5°	764.7	774.8	795.6	824.8	835.1
45°	726.8	738.8	764.7	797.2	810.9
47.5°	689.1	702.7	732.0	769.7	785.2
50°	646.0	663.2	699.2	742.3	759.5
52.5°	604.8	625.5	665.0	713.1	735.5
55°	561.9	582.4	634.0	683.9	707.9
57.5°	513.8	541.1	597.9	654.7	680.4
60°	469.0	494.7	563.5	625.5	651.2
62.5°	421.0	455.4	529.1	594.4	620.3
65°	371.1	409.0	493.1	558.3	584.2
67.5°	326.5	367.7	457.0	522.3	548.2
70°	273.3	324.6	417.5	482.7	508.6
72.5°	223.3	280.1	376.2	439.8	463.9
75°	175.3	238.9	333.3	390.1	402.1
77.5°	130.5	197.6	288.6	312.6	304.1
80°	92.8	158.1	225.0	213.0	218.2
82.5°	60.1	120.4	139.2	158.1	163.3
85°	34.4	70.4	86.0	92.8	96.1
87.5°	15.5	25.7	34.4	34.4	32.7
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)