

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: P843135

Luminaire Tested: **24CZ2-55HE-RDP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843135
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-B50
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

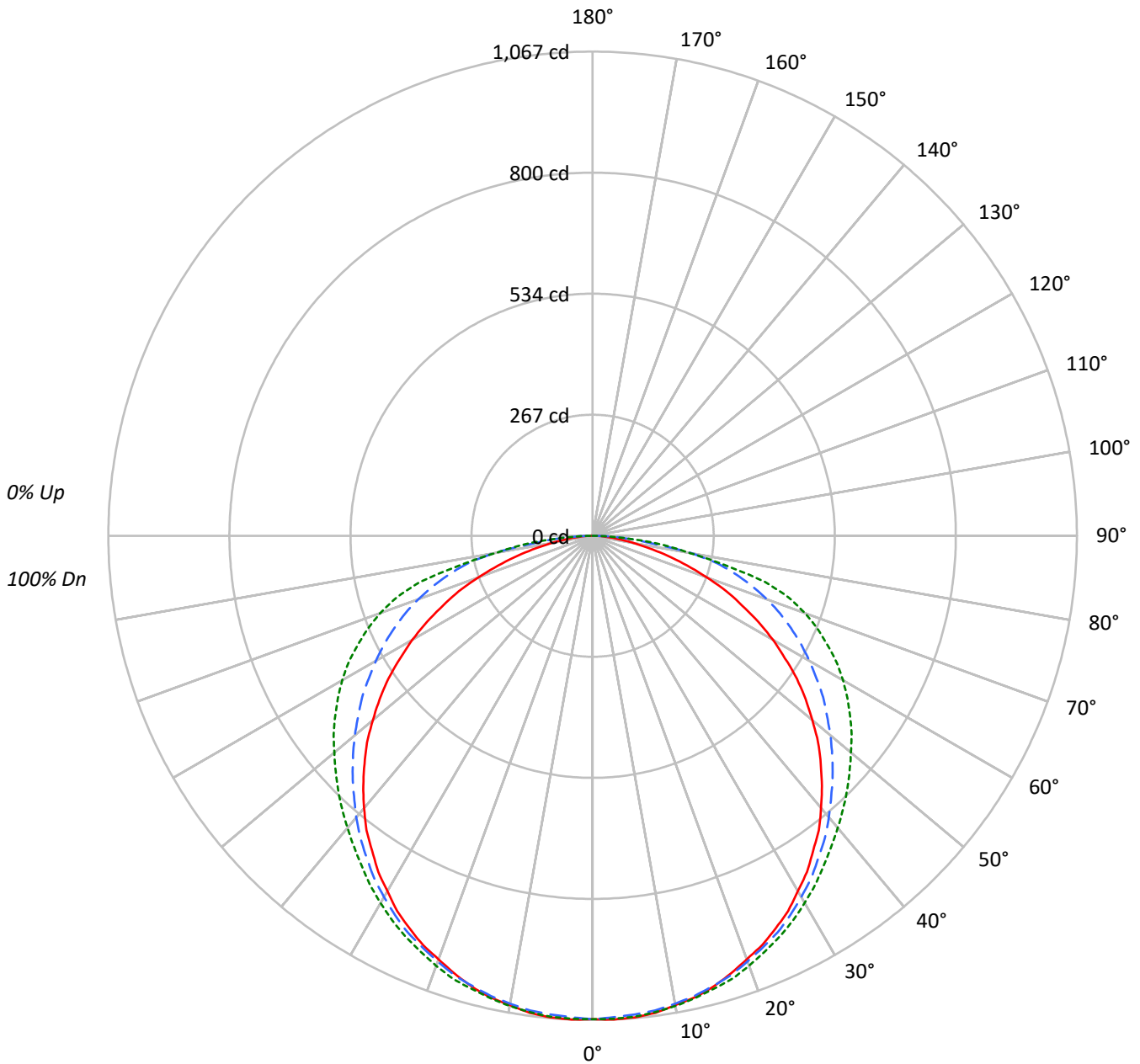
Lumens per Lamp: N/A
Luminaire Lumens: 3388.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	1504	1504	1504
5°	1509	1500	1507
10°	1505	1500	1508
15°	1503	1500	1510
20°	1492	1499	1514
25°	1487	1502	1518
30°	1473	1498	1523
35°	1459	1494	1529
40°	1443	1492	1548
45°	1419	1493	1583
50°	1387	1502	1631
55°	1352	1526	1704
60°	1295	1556	1798
65°	1212	1611	1908
70°	1103	1685	2053
75°	935	1778	2145
80°	738	1789	1734
85°	544	1362	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.0
10°-20°	290.9	8.6
20°-30°	444.8	13.1
30°-40°	543.8	16.0
40°-50°	579.5	17.1
50°-60°	554.1	16.4
60°-70°	469.4	13.9
70°-80°	315.5	9.3
80°-90°	89.0	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°	836.7	24.7
0°-40°	1380.5	40.7
0°-60°	2514.1	74.2
0°-90°	3388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1064	1059	1064	1064	101
15°	1029	1029	1027	1035	1033	290
25°	955	958	964	973	975	440
35°	847	854	867	884	887	531
45°	711	723	748	780	793	548
55°	550	570	620	669	692	489
65°	363	400	482	546	571	360
75°	171	234	326	382	393	184
85°	34	69	84	91	94	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.4	1065.4	1065.4	1065.4	1065.4
2.5°	1067.1	1067.1	1062.0	1065.4	1065.4
5°	1065.4	1063.8	1058.8	1063.8	1063.8
7.5°	1060.4	1058.8	1055.3	1060.4	1058.8
10°	1050.2	1050.2	1047.0	1052.1	1052.1
12.5°	1041.9	1040.3	1038.5	1045.2	1043.6
15°	1028.6	1028.6	1026.7	1035.2	1033.4
17.5°	1011.7	1013.4	1015.0	1021.7	1023.5
20°	993.1	996.5	998.2	1008.3	1008.3
22.5°	976.3	978.1	981.3	991.5	991.5
25°	954.6	957.8	964.5	973.0	974.7
27.5°	932.7	934.3	942.8	954.6	956.2
30°	904.1	909.2	919.1	932.7	934.3
32.5°	878.8	883.9	895.6	909.2	912.5
35°	847.0	853.7	867.1	883.9	887.3
37.5°	818.4	823.5	840.3	858.8	863.8
40°	783.2	793.1	809.9	831.8	840.3
42.5°	747.9	757.8	778.1	806.7	816.8
45°	710.8	722.6	747.9	779.7	793.1
47.5°	674.0	687.3	715.9	752.8	768.0
50°	631.8	648.6	683.9	726.0	742.8
52.5°	591.5	611.7	650.4	697.5	719.3
55°	549.5	569.6	620.1	668.9	692.4
57.5°	502.5	529.3	584.8	640.3	665.4
60°	458.8	483.9	551.2	611.7	636.9
62.5°	411.7	445.4	517.5	581.4	606.7
65°	362.9	400.0	482.3	546.1	571.4
67.5°	319.3	359.7	447.0	510.8	536.2
70°	267.3	317.5	408.3	472.1	497.5
72.5°	218.4	274.0	368.0	430.2	453.7
75°	171.4	233.6	326.0	381.6	393.3
77.5°	127.7	193.3	282.3	305.8	297.5
80°	90.8	154.6	220.1	208.3	213.4
82.5°	58.8	117.7	136.2	154.6	159.7
85°	33.6	68.9	84.1	90.8	94.0
87.5°	15.2	25.1	33.6	33.6	32.0
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)