

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: P843161

Luminaire Tested: **24CZ2-65HE-HRP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-HRP-UNV-B40
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

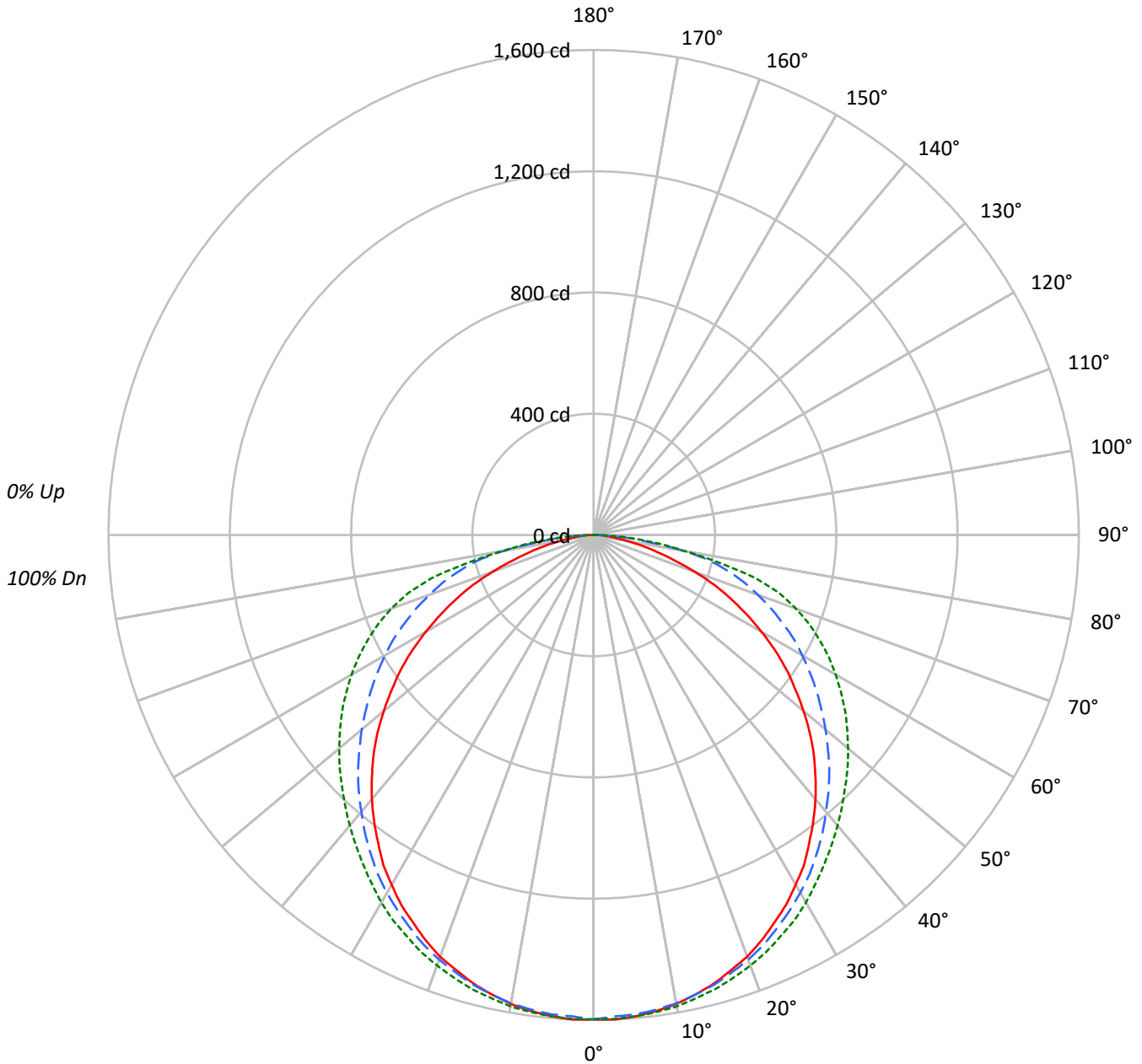
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4926.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2256	2256	2256
5°	2259	2249	2259
10°	2252	2249	2264
15°	2239	2245	2266
20°	2224	2239	2270
25°	2197	2229	2274
30°	2171	2222	2282
35°	2136	2210	2284
40°	2097	2196	2306
45°	2050	2194	2342
50°	1983	2192	2404
55°	1913	2207	2491
60°	1805	2241	2602
65°	1667	2294	2747
70°	1455	2374	2928
75°	1181	2496	3025
80°	870	2448	2448
85°	669	1806	2035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	3.1
10°-20°	434.8	8.8
20°-30°	661.9	13.4
30°-40°	803.7	16.3
40°-50°	849.1	17.2
50°-60°	801.2	16.3
60°-70°	666.2	13.5
70°-80°	438.3	8.9
80°-90°	119.5	2.4
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°	1248.1	25.3
0°-40°	2051.8	41.7
0°-60°	3702.0	75.2
0°-90°	4926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1594	1594	1588	1594	1594	151
15°	1532	1534	1536	1551	1551	432
25°	1411	1419	1431	1456	1460	651
35°	1240	1254	1283	1316	1326	776
45°	1027	1048	1099	1153	1173	791
55°	777	810	897	982	1012	692
65°	499	557	687	788	823	493
75°	216	316	458	542	555	233
85°	41	91	112	124	126	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.3	1598.3	1598.3	1598.3	1598.3
2.5°	1600.3	1598.3	1589.9	1598.3	1598.3
5°	1594.2	1594.2	1587.8	1594.2	1594.2
7.5°	1583.8	1583.8	1579.7	1587.8	1587.8
10°	1571.5	1571.5	1569.2	1579.7	1579.7
12.5°	1552.9	1555.0	1552.9	1565.2	1565.2
15°	1532.3	1534.3	1536.3	1550.9	1550.9
17.5°	1505.5	1509.6	1513.6	1530.2	1532.3
20°	1480.7	1482.8	1490.9	1509.6	1511.6
22.5°	1447.6	1454.0	1464.2	1482.8	1488.9
25°	1410.6	1418.8	1431.3	1456.0	1460.1
27.5°	1375.4	1381.8	1398.1	1424.9	1433.3
30°	1332.3	1342.5	1363.2	1389.9	1400.1
32.5°	1291.0	1301.2	1325.9	1355.0	1363.2
35°	1239.5	1253.8	1282.8	1315.7	1325.9
37.5°	1190.0	1204.3	1239.5	1276.5	1288.9
40°	1138.2	1154.8	1192.0	1235.4	1251.7
42.5°	1082.6	1105.3	1146.6	1194.1	1212.7
45°	1027.0	1047.7	1099.2	1152.8	1173.4
47.5°	967.1	991.8	1047.7	1111.4	1136.2
50°	903.3	934.2	998.2	1068.3	1095.1
52.5°	839.3	874.3	946.4	1025.0	1053.8
55°	777.3	810.5	897.0	981.6	1012.5
57.5°	709.5	750.6	845.4	936.2	967.1
60°	639.4	684.8	793.9	888.8	921.7
62.5°	569.2	620.8	744.4	839.3	874.3
65°	499.1	556.7	686.8	787.8	822.7
67.5°	431.0	495.0	633.0	734.2	769.2
70°	352.7	433.0	575.4	674.3	709.5
72.5°	280.5	373.4	519.8	612.6	643.5
75°	216.5	315.5	457.8	542.5	554.7
77.5°	158.9	257.8	393.8	422.8	424.9
80°	107.1	206.3	301.2	296.9	301.2
82.5°	70.1	154.6	189.7	212.4	214.5
85°	41.3	90.8	111.5	123.7	125.7
87.5°	20.7	30.9	39.3	41.3	45.4
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)