

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: P880984

Luminaire Tested: **24CZ2-65VHE-RDP-B2750-W2D-3500K**

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: P880984
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: 24CZ2-65VHE-RDP-B2750-W2D-3500K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

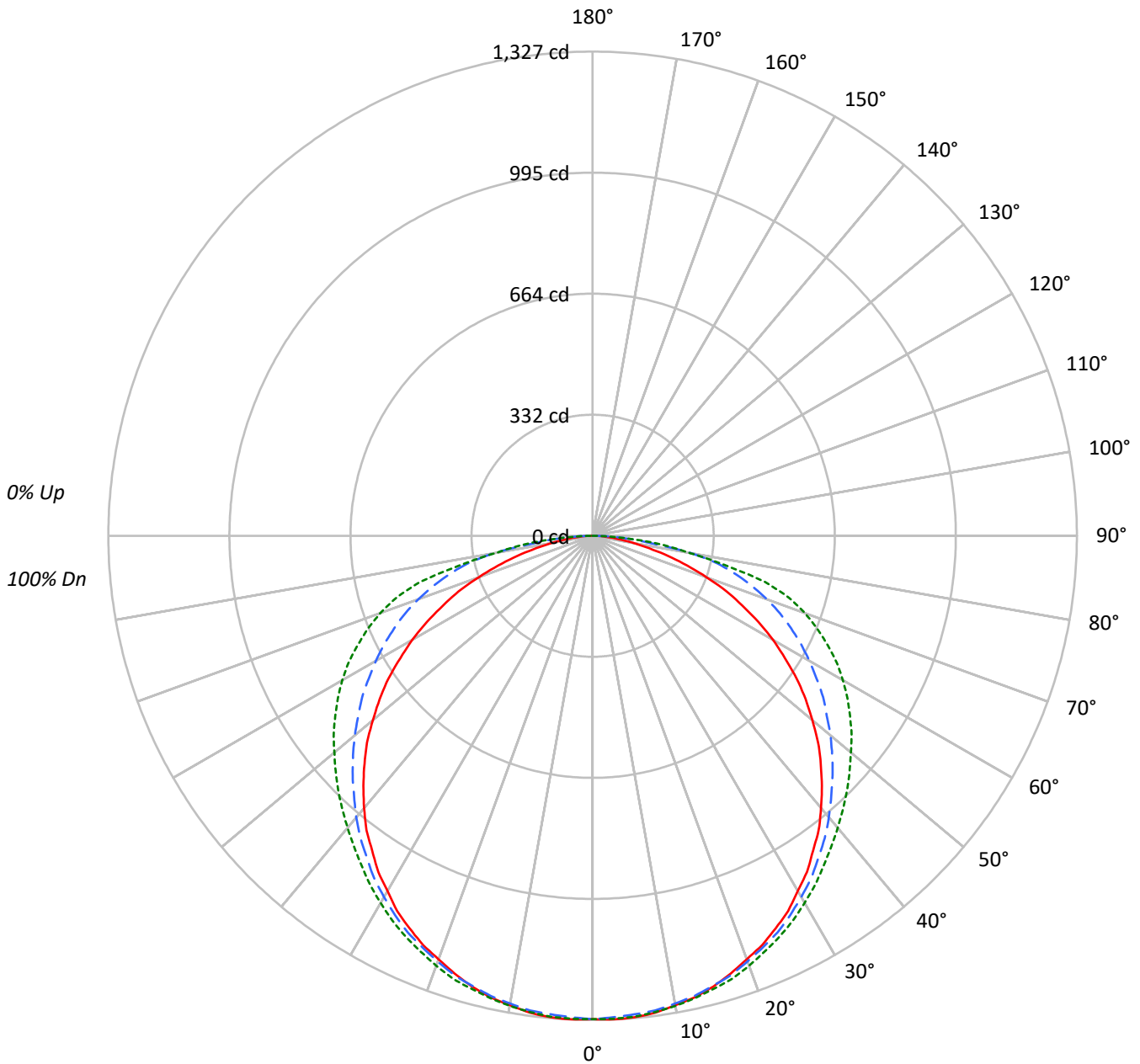
Lumens per Lamp: N/A
Luminaire Lumens: 4213.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 51
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				20				
RC	80				70				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°	1870	1870	1870
5°	1877	1865	1874
10°	1872	1866	1875
15°	1868	1866	1878
20°	1855	1864	1883
25°	1848	1868	1888
30°	1832	1863	1894
35°	1814	1858	1901
40°	1794	1856	1925
45°	1764	1856	1968
50°	1725	1867	2028
55°	1681	1897	2118
60°	1610	1935	2235
65°	1507	2003	2373
70°	1371	2096	2552
75°	1161	2211	2667
80°	917	2224	2156
85°	677	1692	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.0
10°-20°	361.7	8.6
20°-30°	553.1	13.1
30°-40°	676.1	16.0
40°-50°	720.7	17.1
50°-60°	689.0	16.4
60°-70°	583.7	13.9
70°-80°	392.3	9.3
80°-90°	110.7	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°	1040.5	24.7
0°-40°	1716.6	40.7
0°-60°	3126.3	74.2
0°-90°	4213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1325	1323	1317	1323	1323	126
15°	1279	1279	1277	1287	1285	361
25°	1187	1191	1199	1210	1212	547
35°	1053	1062	1078	1099	1103	660
45°	884	899	930	970	986	682
55°	683	708	771	832	861	609
65°	451	498	600	679	710	448
75°	213	290	406	474	489	228
85°	42	86	104	113	117	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.9	1324.9	1324.9	1324.9	1324.9
2.5°	1327.0	1327.0	1320.7	1324.9	1324.9
5°	1324.9	1322.9	1316.6	1322.9	1322.9
7.5°	1318.6	1316.6	1312.3	1318.6	1316.6
10°	1306.2	1306.2	1301.9	1308.2	1308.2
12.5°	1295.6	1293.5	1291.5	1299.8	1297.8
15°	1278.8	1278.8	1276.8	1287.2	1285.2
17.5°	1258.0	1260.1	1262.3	1270.7	1272.7
20°	1235.0	1239.2	1241.3	1253.9	1253.9
22.5°	1214.1	1216.2	1220.5	1232.9	1232.9
25°	1187.0	1191.1	1199.4	1209.9	1212.1
27.5°	1159.7	1161.9	1172.3	1187.0	1189.0
30°	1124.2	1130.5	1143.1	1159.7	1161.9
32.5°	1092.9	1099.1	1113.7	1130.5	1134.8
35°	1053.1	1061.5	1078.2	1099.1	1103.3
37.5°	1017.6	1023.8	1044.8	1067.8	1074.0
40°	974.0	986.2	1007.2	1034.4	1044.8
42.5°	929.9	942.5	967.6	1002.9	1015.4
45°	884.0	898.7	929.9	969.7	986.2
47.5°	838.1	854.8	890.3	936.2	955.0
50°	785.6	806.6	850.5	902.7	923.8
52.5°	735.6	760.7	808.7	867.2	894.4
55°	683.2	708.3	771.1	831.7	860.9
57.5°	624.8	658.1	727.3	796.2	827.5
60°	570.5	601.8	685.4	760.7	791.9
62.5°	512.0	553.8	643.6	723.0	754.4
65°	451.4	497.5	599.7	679.1	710.5
67.5°	397.1	447.3	555.9	635.2	666.5
70°	332.2	394.9	507.9	587.1	618.5
72.5°	271.6	340.6	457.7	535.0	564.2
75°	213.0	290.4	405.5	474.4	489.1
77.5°	159.0	240.2	351.0	380.4	370.0
80°	112.8	192.4	273.6	258.9	265.3
82.5°	73.3	146.3	169.4	192.4	198.3
85°	41.8	85.7	104.5	112.8	117.1
87.5°	18.8	31.4	41.8	41.8	39.8
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)