

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: P881291

Luminaire Tested: **24CZ2-75VHE-RDP-UNV-B40**

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: P881291
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: 24CZ2-75VHE-RDP-UNV-B40
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

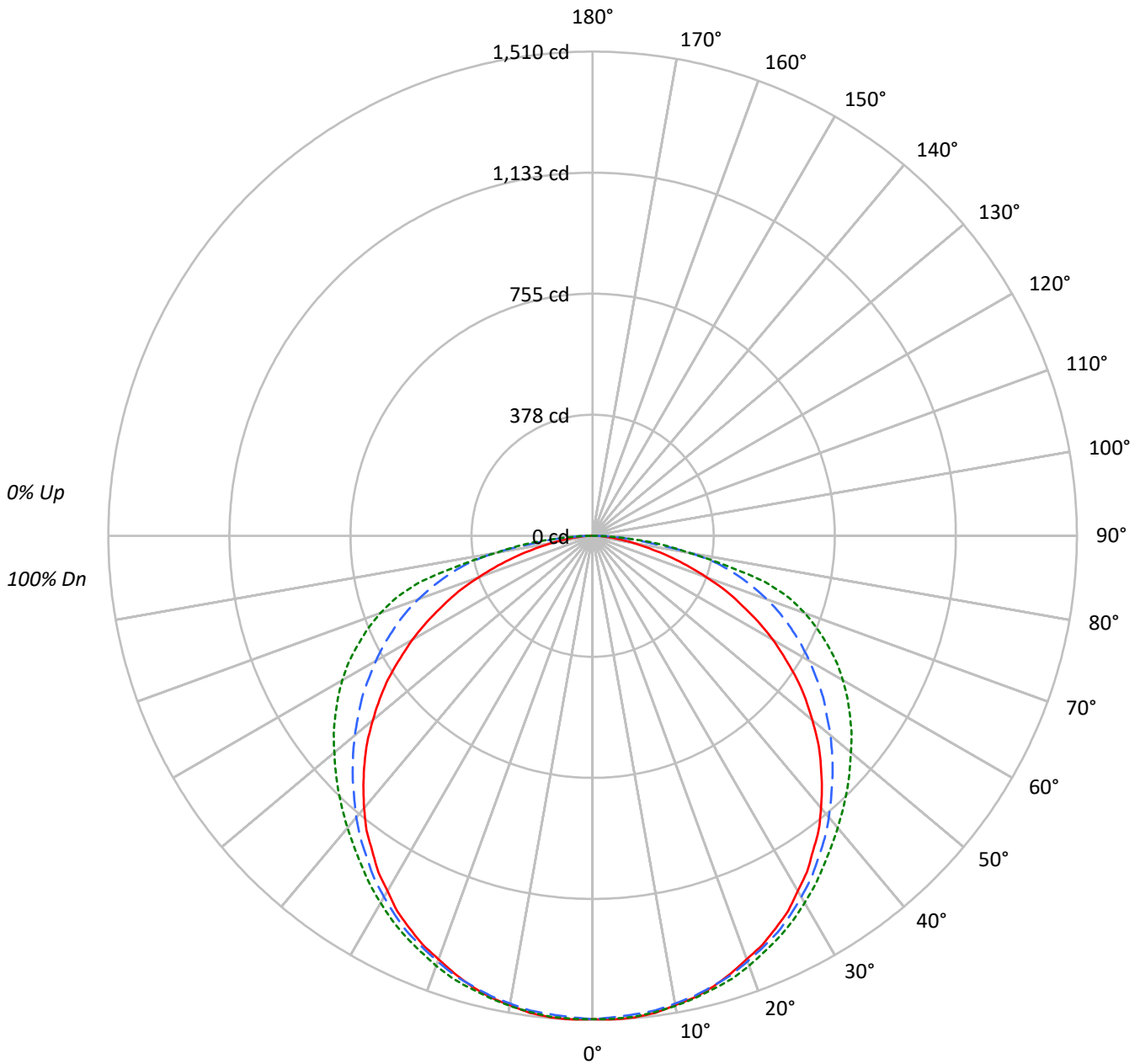
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4794.0 lumens
Efficiency: N/A
Efficacy: 79.9 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): 60
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°	2128	2128	2128
5°	2136	2122	2133
10°	2130	2123	2133
15°	2126	2123	2137
20°	2111	2121	2143
25°	2103	2125	2148
30°	2085	2120	2155
35°	2065	2114	2163
40°	2042	2112	2190
45°	2008	2112	2240
50°	1963	2125	2308
55°	1913	2159	2410
60°	1832	2202	2544
65°	1715	2279	2700
70°	1560	2385	2904
75°	1322	2516	3035
80°	1044	2531	2454
85°	771	1925	2159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	3.0
10°-20°	411.6	8.6
20°-30°	629.4	13.1
30°-40°	769.4	16.0
40°-50°	820.1	17.1
50°-60°	784.1	16.4
60°-70°	664.2	13.9
70°-80°	446.4	9.3
80°-90°	126.0	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°	1184.0	24.7
0°-40°	1953.4	40.7
0°-60°	3557.5	74.2
0°-90°	4794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1508	1505	1498	1505	1505	143
15°	1455	1455	1453	1465	1462	410
25°	1351	1355	1365	1377	1379	622
35°	1198	1208	1227	1251	1256	751
45°	1006	1023	1058	1103	1122	776
55°	777	806	878	946	980	693
65°	514	566	682	773	808	510
75°	242	330	461	540	557	260
85°	48	98	119	128	133	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.7	1507.7	1507.7	1507.7	1507.7
2.5°	1510.0	1510.0	1502.8	1507.7	1507.7
5°	1507.7	1505.3	1498.1	1505.3	1505.3
7.5°	1500.5	1498.1	1493.3	1500.5	1498.1
10°	1486.3	1486.3	1481.4	1488.6	1488.6
12.5°	1474.2	1471.9	1469.6	1479.1	1476.8
15°	1455.2	1455.2	1452.9	1464.7	1462.4
17.5°	1431.5	1433.8	1436.4	1445.9	1448.2
20°	1405.3	1410.1	1412.5	1426.9	1426.9
22.5°	1381.6	1383.9	1388.8	1402.9	1402.9
25°	1350.7	1355.3	1364.9	1376.7	1379.3
27.5°	1319.6	1322.1	1334.0	1350.7	1353.0
30°	1279.2	1286.4	1300.8	1319.6	1322.1
32.5°	1243.7	1250.6	1267.3	1286.4	1291.3
35°	1198.4	1207.9	1226.9	1250.6	1255.5
37.5°	1158.0	1164.9	1188.9	1215.1	1222.1
40°	1108.3	1122.2	1146.1	1177.0	1188.9
42.5°	1058.1	1072.5	1101.1	1141.3	1155.4
45°	1005.9	1022.6	1058.1	1103.4	1122.2
47.5°	953.6	972.7	1013.1	1065.3	1086.7
50°	894.0	917.9	967.8	1027.2	1051.2
52.5°	837.1	865.6	920.2	986.8	1017.7
55°	777.4	806.0	877.5	946.4	979.6
57.5°	711.0	748.8	827.6	906.0	941.6
60°	649.2	684.8	780.0	865.6	901.2
62.5°	582.6	630.2	732.4	822.7	858.4
65°	513.6	566.1	682.4	772.8	808.5
67.5°	451.9	509.0	632.5	722.8	758.4
70°	378.0	449.3	577.9	668.0	703.8
72.5°	309.1	387.5	520.8	608.8	642.0
75°	242.4	330.4	461.4	539.9	556.6
77.5°	180.9	273.3	399.4	432.8	421.0
80°	128.4	219.0	311.4	294.7	301.9
82.5°	83.4	166.5	192.7	219.0	225.7
85°	47.6	97.5	118.9	128.4	133.3
87.5°	21.4	35.8	47.6	47.6	45.3
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)