

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: P880902

Luminaire Tested: **24CZ2-50VHE-HRP-B2750-W2D-2700K**

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: P880902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-HRP-B2750-W2D-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

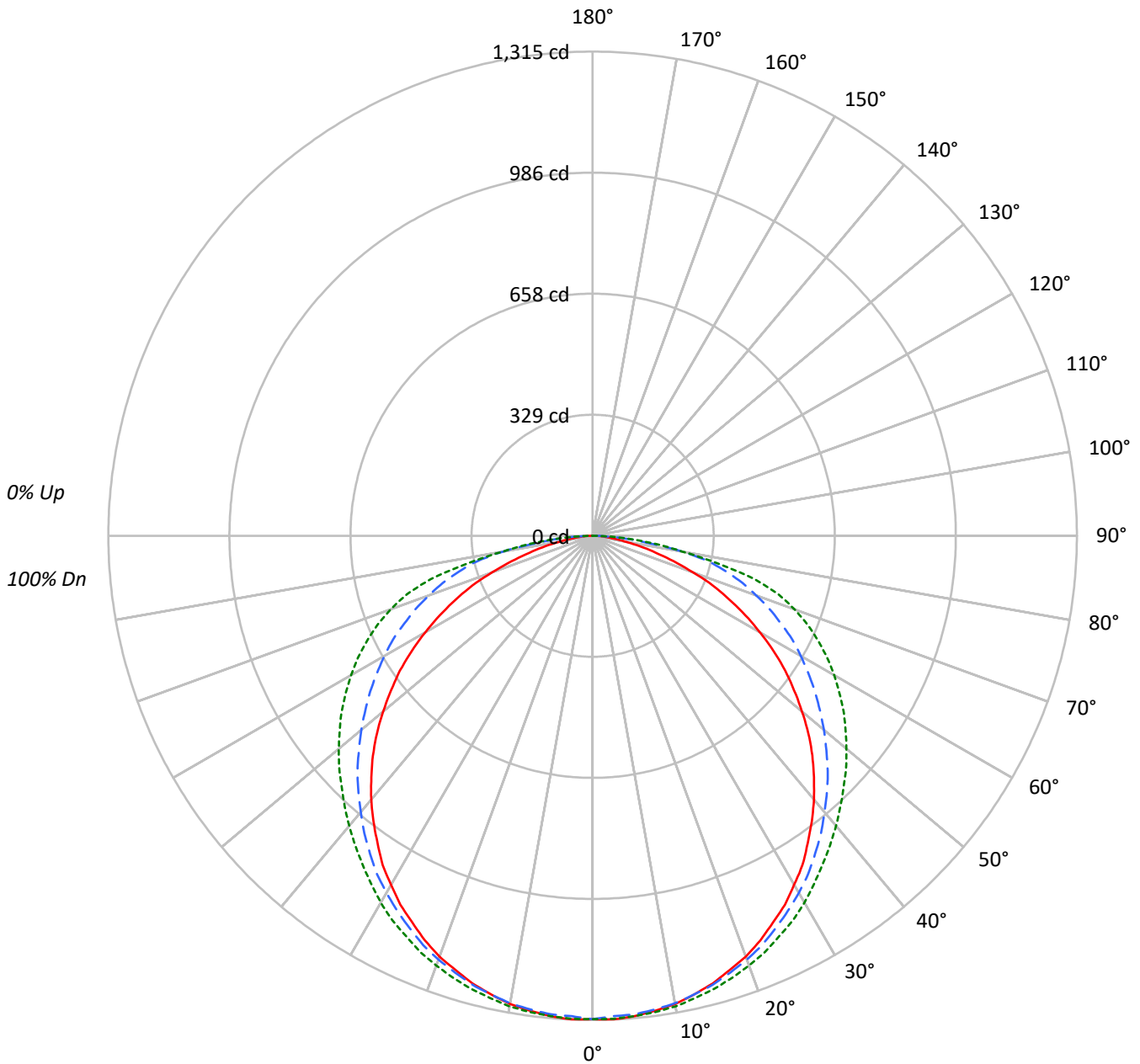
Lumens per Lamp: N/A
Luminaire Lumens: 4047.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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

TEST NUMBER: P880902

CATALOG NUMBER: 24CZ2-50VHE-HRP-B2750-W2D-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P880902

CATALOG NUMBER: 24CZ2-50VHE-HRP-B2750-W2D-2700K

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°	1853	1853	1853
5°	1855	1848	1855
10°	1850	1848	1860
15°	1839	1844	1862
20°	1827	1840	1865
25°	1804	1831	1868
30°	1784	1825	1875
35°	1754	1815	1877
40°	1723	1804	1895
45°	1684	1802	1924
50°	1629	1801	1975
55°	1572	1813	2047
60°	1482	1841	2138
65°	1369	1884	2258
70°	1195	1950	2405
75°	970	2051	2485
80°	717	2012	2012
85°	549	1482	1674



TEST NUMBER: P880902

CATALOG NUMBER: 24CZ2-50VHE-HRP-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	3.1
10°-20°	357.2	8.8
20°-30°	543.8	13.4
30°-40°	660.3	16.3
40°-50°	697.6	17.2
50°-60°	658.3	16.3
60°-70°	547.3	13.5
70°-80°	360.1	8.9
80°-90°	98.2	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°	1025.3	25.3
0°-40°	1685.6	41.7
0°-60°	3041.5	75.2
0°-90°	4047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1310	1310	1304	1310	1310	124
15°	1259	1260	1262	1274	1274	355
25°	1159	1166	1176	1196	1200	535
35°	1018	1030	1054	1081	1089	637
45°	844	861	903	947	964	650
55°	639	666	737	807	832	569
65°	410	458	564	647	676	405
75°	178	259	376	446	456	192
85°	34	75	92	102	103	41
90°	0	0	0	0	0	



TEST NUMBER: P880902

CATALOG NUMBER: 24CZ2-50VHE-HRP-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1313.0	1313.0	1313.0	1313.0	1313.0
2.5°	1314.7	1313.0	1306.2	1313.0	1313.0
5°	1309.7	1309.7	1304.5	1309.7	1309.7
7.5°	1301.2	1301.2	1297.7	1304.5	1304.5
10°	1291.0	1291.0	1289.3	1297.7	1297.7
12.5°	1275.8	1277.3	1275.8	1285.8	1285.8
15°	1258.8	1260.4	1262.3	1274.1	1274.1
17.5°	1236.9	1240.2	1243.6	1257.1	1258.8
20°	1216.5	1218.0	1224.9	1240.2	1241.9
22.5°	1189.5	1194.5	1203.0	1218.0	1223.4
25°	1158.7	1165.6	1175.8	1196.2	1199.5
27.5°	1130.0	1135.2	1148.7	1170.8	1177.6
30°	1094.5	1103.0	1119.8	1141.9	1150.4
32.5°	1060.6	1069.1	1089.4	1113.0	1119.8
35°	1018.3	1030.2	1053.7	1080.9	1089.4
37.5°	977.6	989.4	1018.3	1048.7	1059.1
40°	935.1	948.7	979.4	1014.8	1028.3
42.5°	889.4	908.1	942.0	980.9	996.3
45°	843.6	860.7	902.9	947.0	964.0
47.5°	794.7	815.1	860.7	913.3	933.6
50°	742.1	767.5	820.1	877.5	899.7
52.5°	689.7	718.4	777.7	842.0	865.8
55°	638.7	665.8	736.9	806.6	831.9
57.5°	582.8	616.9	694.7	769.2	794.7
60°	525.2	562.6	652.3	730.1	757.3
62.5°	467.6	510.0	611.5	689.7	718.4
65°	410.0	457.6	564.3	647.3	676.1
67.5°	354.0	406.6	520.2	603.2	631.9
70°	289.7	355.9	472.6	554.1	582.8
72.5°	230.4	306.8	426.8	503.3	528.7
75°	177.8	259.3	376.1	445.5	455.7
77.5°	130.4	211.7	323.6	347.2	349.0
80°	88.2	169.3	247.5	244.0	247.5
82.5°	57.6	127.1	155.8	174.5	176.2
85°	33.9	74.6	91.5	101.7	103.4
87.5°	16.9	25.4	32.2	33.9	37.2
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)