

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: P732317

Luminaire Tested: **24CZ2-50HE-HRP-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732317
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: 24CZ2-50HE-HRP-B2750-W2D-3000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

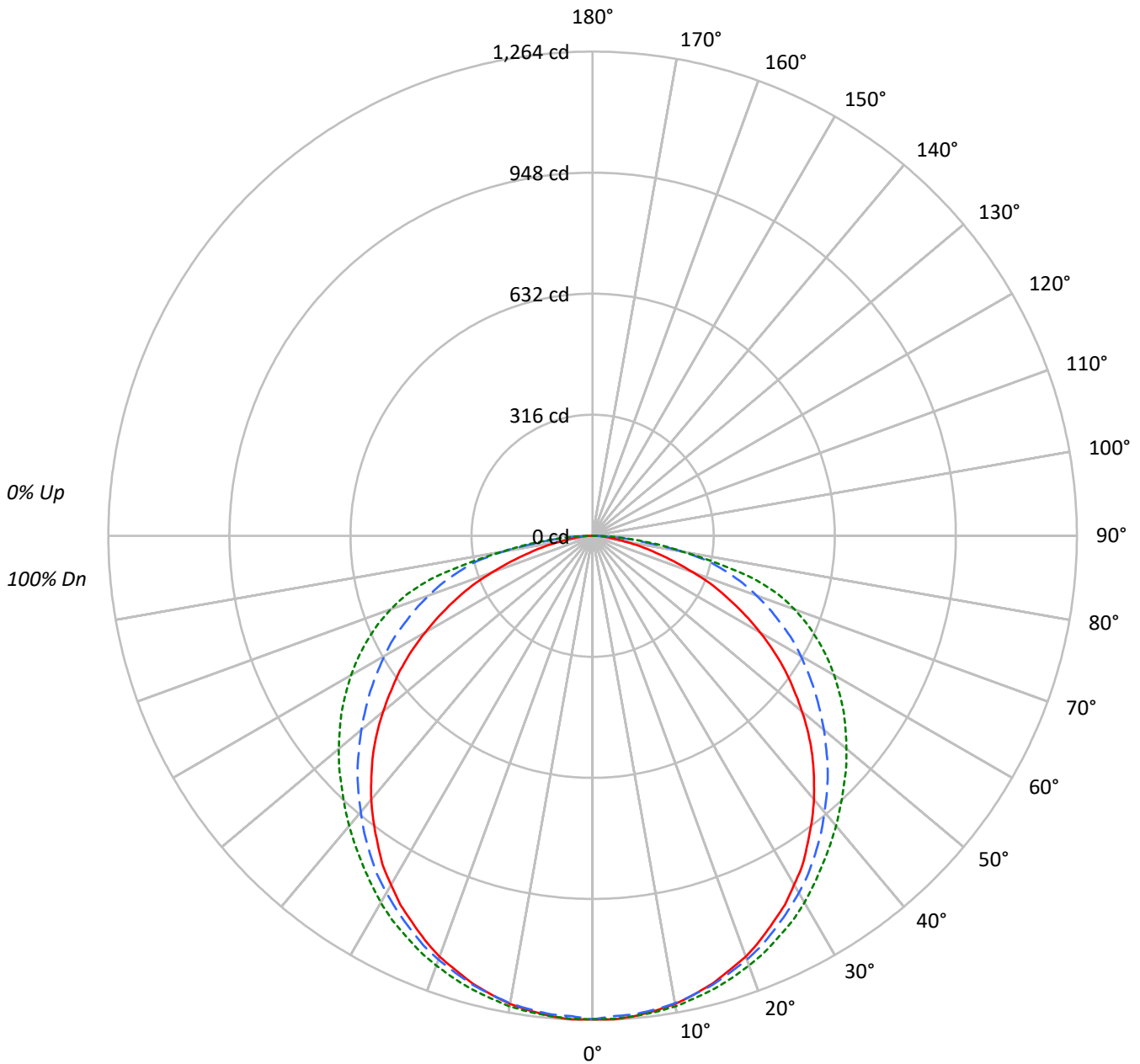
Lumens per Lamp: N/A
Luminaire Lumens: 3890.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	1781	1781	1781
5°	1784	1776	1784
10°	1778	1776	1788
15°	1768	1773	1789
20°	1756	1768	1793
25°	1735	1760	1795
30°	1715	1754	1802
35°	1686	1745	1804
40°	1656	1734	1821
45°	1619	1732	1849
50°	1566	1731	1899
55°	1511	1743	1967
60°	1425	1770	2055
65°	1316	1811	2170
70°	1149	1875	2312
75°	932	1971	2388
80°	688	1934	1934
85°	528	1425	1608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.1
10°-20°	343.3	8.8
20°-30°	522.7	13.4
30°-40°	634.7	16.3
40°-50°	670.5	17.2
50°-60°	632.7	16.3
60°-70°	526.1	13.5
70°-80°	346.1	8.9
80°-90°	94.3	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°	985.6	25.3
0°-40°	1620.2	41.7
0°-60°	2923.4	75.2
0°-90°	3890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1259	1259	1254	1259	1259	120
15°	1210	1212	1213	1225	1225	341
25°	1114	1120	1130	1150	1153	514
35°	979	990	1013	1039	1047	613
45°	811	827	868	910	927	625
55°	614	640	708	775	800	547
65°	394	440	542	622	650	390
75°	171	249	362	428	438	184
85°	33	72	88	98	99	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1262.2	1262.2	1262.2	1262.2	1262.2
2.5°	1263.8	1262.2	1255.5	1262.2	1262.2
5°	1258.9	1258.9	1253.9	1258.9	1258.9
7.5°	1250.7	1250.7	1247.5	1253.9	1253.9
10°	1241.0	1241.0	1239.2	1247.5	1247.5
12.5°	1226.3	1227.9	1226.3	1236.0	1236.0
15°	1210.0	1211.6	1213.2	1224.7	1224.7
17.5°	1188.9	1192.1	1195.3	1208.4	1210.0
20°	1169.3	1170.9	1177.4	1192.1	1193.7
22.5°	1143.1	1148.2	1156.2	1170.9	1175.8
25°	1113.9	1120.4	1130.2	1149.8	1153.0
27.5°	1086.1	1091.2	1104.1	1125.2	1131.9
30°	1052.1	1060.2	1076.5	1097.6	1105.7
32.5°	1019.5	1027.5	1047.1	1070.0	1076.5
35°	978.8	990.1	1013.0	1039.0	1047.1
37.5°	939.7	951.0	978.8	1008.0	1017.9
40°	898.8	911.9	941.3	975.6	988.5
42.5°	854.9	872.9	905.5	942.9	957.6
45°	811.0	827.3	868.0	910.3	926.6
47.5°	763.7	783.2	827.3	877.7	897.2
50°	713.4	737.7	788.3	843.7	864.8
52.5°	662.8	690.4	747.4	809.4	832.2
55°	613.9	640.0	708.3	775.2	799.6
57.5°	560.3	592.7	667.6	739.3	763.7
60°	504.9	540.8	627.0	701.9	727.9
62.5°	449.5	490.2	587.9	662.8	690.4
65°	394.1	439.7	542.4	622.1	649.7
67.5°	340.4	390.9	499.9	579.8	607.4
70°	278.5	342.0	454.4	532.5	560.3
72.5°	221.5	294.8	410.4	483.8	508.1
75°	171.0	249.1	361.5	428.4	438.0
77.5°	125.5	203.6	311.0	333.9	335.5
80°	84.6	162.9	237.9	234.4	237.9
82.5°	55.4	122.0	149.8	167.8	169.4
85°	32.6	71.7	88.0	97.7	99.3
87.5°	16.3	24.4	31.0	32.6	35.8
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)