

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: P732319

Luminaire Tested: **24CZ2-50HE-HRP-B2750-W2D-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732319
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-4000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

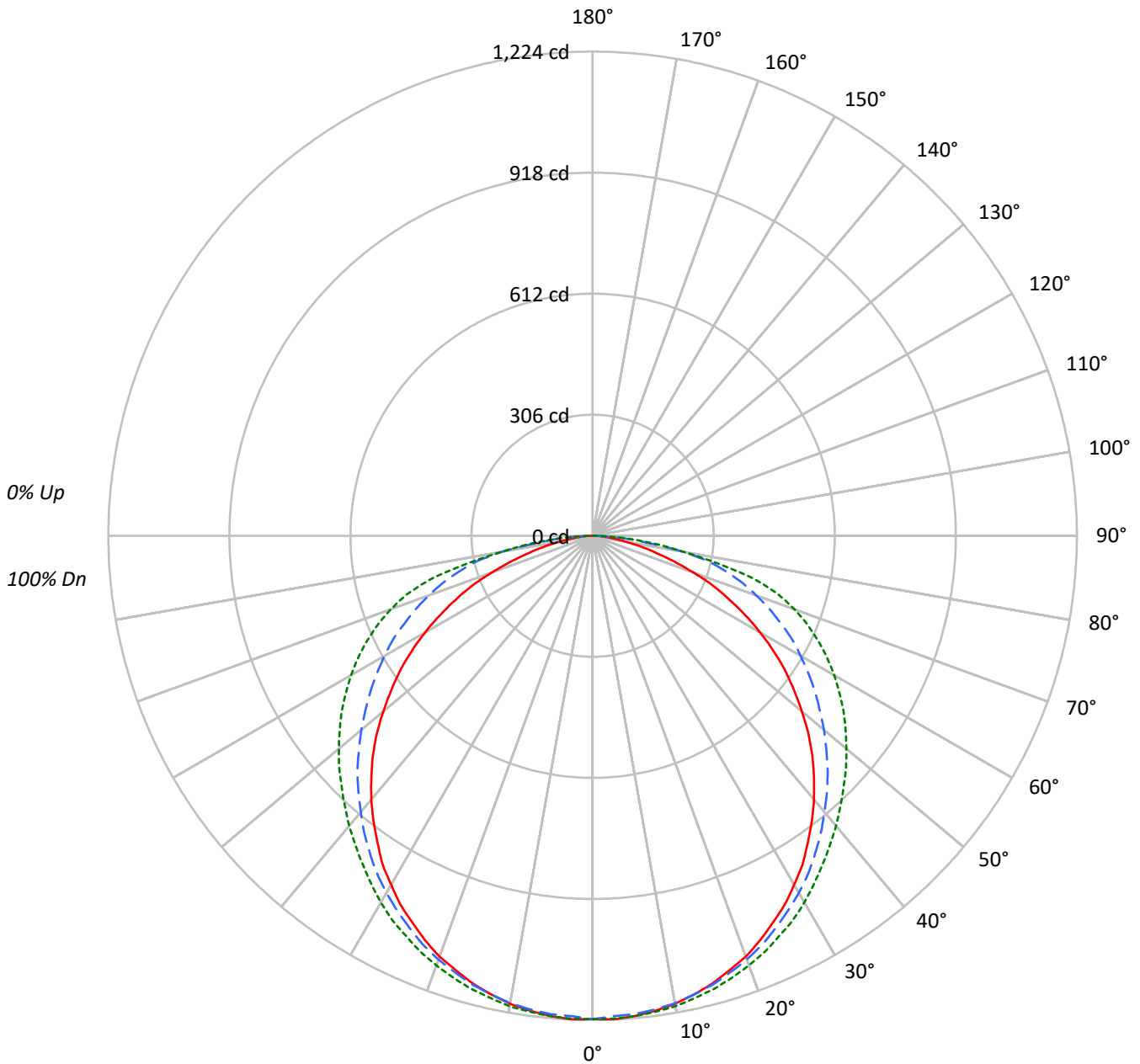
Lumens per Lamp: N/A
Luminaire Lumens: 3766.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1725	1725	1725
5°	1727	1720	1727
10°	1722	1719	1731
15°	1712	1716	1732
20°	1700	1712	1736
25°	1679	1704	1738
30°	1660	1698	1744
35°	1633	1690	1747
40°	1603	1679	1763
45°	1567	1677	1791
50°	1516	1676	1838
55°	1462	1687	1905
60°	1380	1713	1989
65°	1274	1754	2101
70°	1113	1815	2238
75°	902	1909	2313
80°	666	1872	1872
85°	512	1380	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.1
10°-20°	332.4	8.8
20°-30°	506.0	13.4
30°-40°	614.4	16.3
40°-50°	649.1	17.2
50°-60°	612.5	16.3
60°-70°	509.3	13.5
70°-80°	335.1	8.9
80°-90°	91.4	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°	954.2	25.3
0°-40°	1568.6	41.7
0°-60°	2830.3	75.2
0°-90°	3766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1219	1219	1214	1219	1219	116
15°	1171	1173	1174	1186	1186	330
25°	1078	1085	1094	1113	1116	497
35°	948	958	981	1006	1014	593
45°	785	801	840	881	897	605
55°	594	620	686	750	774	529
65°	382	426	525	602	629	377
75°	166	241	350	415	424	178
85°	32	69	85	95	96	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1221.9	1221.9	1221.9	1221.9	1221.9
2.5°	1223.5	1221.9	1215.5	1221.9	1221.9
5°	1218.8	1218.8	1213.9	1218.8	1218.8
7.5°	1210.8	1210.8	1207.7	1213.9	1213.9
10°	1201.5	1201.5	1199.7	1207.7	1207.7
12.5°	1187.2	1188.8	1187.2	1196.6	1196.6
15°	1171.4	1173.0	1174.5	1185.7	1185.7
17.5°	1151.0	1154.1	1157.2	1169.9	1171.4
20°	1132.0	1133.6	1139.8	1154.1	1155.6
22.5°	1106.7	1111.6	1119.4	1133.6	1138.3
25°	1078.4	1084.7	1094.2	1113.1	1116.3
27.5°	1051.5	1056.4	1068.9	1089.3	1095.8
30°	1018.6	1026.4	1042.2	1062.6	1070.4
32.5°	987.0	994.8	1013.7	1035.9	1042.2
35°	947.6	958.5	980.7	1005.9	1013.7
37.5°	909.8	920.7	947.6	975.9	985.4
40°	870.2	882.9	911.3	944.5	957.0
42.5°	827.7	845.0	876.6	912.9	927.1
45°	785.2	801.0	840.4	881.3	897.1
47.5°	739.4	758.3	801.0	849.7	868.6
50°	690.6	714.2	763.1	816.8	837.2
52.5°	641.7	668.4	723.6	783.6	805.7
55°	594.3	619.6	685.7	750.5	774.1
57.5°	542.4	573.8	646.4	715.8	739.4
60°	488.8	523.5	607.0	679.5	704.7
62.5°	435.2	474.6	569.1	641.7	668.4
65°	381.6	425.6	525.1	602.3	629.0
67.5°	329.5	378.5	483.9	561.3	588.1
70°	269.7	331.1	439.9	515.5	542.4
72.5°	214.5	285.4	397.4	468.3	491.9
75°	165.5	241.2	350.0	414.7	424.1
77.5°	121.5	197.1	301.0	323.3	324.8
80°	81.9	157.7	230.3	227.0	230.3
82.5°	53.6	118.2	145.1	162.4	164.0
85°	31.6	69.4	85.2	94.6	96.1
87.5°	15.8	23.6	30.0	31.6	34.7
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)