

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: P732291

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732291
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: 24CZ2-50-HRP-B2750-W2D-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

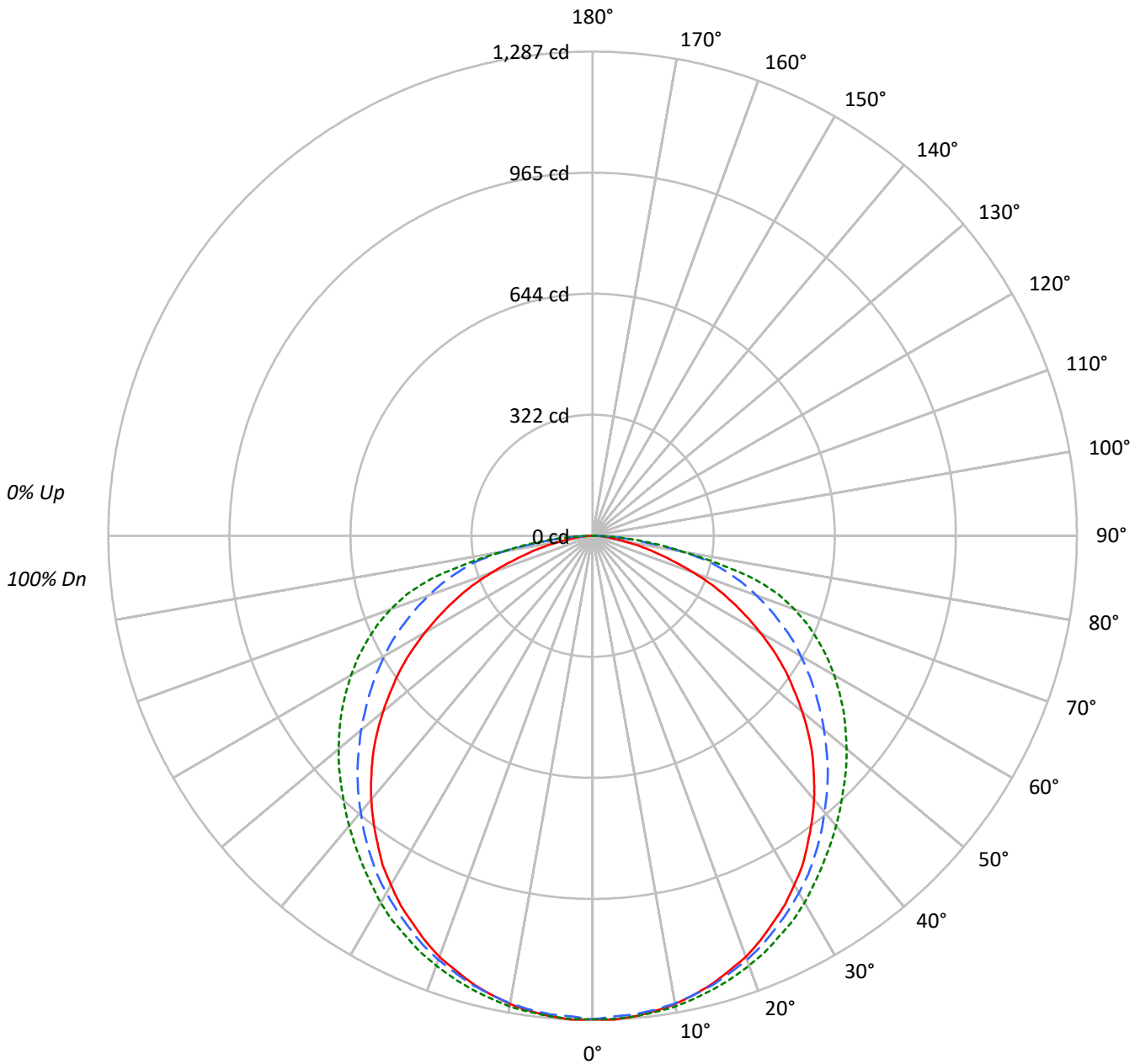
Lumens per Lamp: N/A
Luminaire Lumens: 3962.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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°	1814	1814	1814
5°	1817	1809	1817
10°	1811	1809	1821
15°	1801	1806	1823
20°	1789	1801	1826
25°	1767	1793	1829
30°	1746	1787	1835
35°	1718	1778	1837
40°	1687	1766	1855
45°	1649	1765	1884
50°	1595	1763	1934
55°	1538	1775	2004
60°	1452	1803	2092
65°	1340	1845	2210
70°	1171	1910	2355
75°	950	2008	2433
80°	701	1969	1969
85°	538	1451	1637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.1
10°-20°	349.7	8.8
20°-30°	532.4	13.4
30°-40°	646.4	16.3
40°-50°	682.9	17.2
50°-60°	644.4	16.3
60°-70°	535.8	13.5
70°-80°	352.5	8.9
80°-90°	96.1	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°	1003.8	25.3
0°-40°	1650.2	41.7
0°-60°	2977.6	75.2
0°-90°	3962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1282	1282	1277	1282	1282	122
15°	1232	1234	1236	1247	1247	348
25°	1135	1141	1151	1171	1174	523
35°	997	1008	1032	1058	1066	624
45°	826	843	884	927	944	636
55°	625	652	721	790	814	557
65°	401	448	552	634	662	397
75°	174	254	368	436	446	188
85°	33	73	90	100	101	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.5	1285.5	1285.5	1285.5	1285.5
2.5°	1287.2	1285.5	1278.8	1285.5	1285.5
5°	1282.2	1282.2	1277.1	1282.2	1282.2
7.5°	1273.8	1273.8	1270.5	1277.1	1277.1
10°	1264.0	1264.0	1262.1	1270.5	1270.5
12.5°	1249.0	1250.7	1249.0	1258.9	1258.9
15°	1232.4	1234.0	1235.7	1247.4	1247.4
17.5°	1210.9	1214.1	1217.4	1230.8	1232.4
20°	1191.0	1192.6	1199.2	1214.1	1215.8
22.5°	1164.3	1169.4	1177.6	1192.6	1197.5
25°	1134.6	1141.1	1151.2	1171.1	1174.3
27.5°	1106.2	1111.4	1124.5	1146.0	1152.8
30°	1071.6	1079.8	1096.4	1117.9	1126.1
32.5°	1038.3	1046.6	1066.4	1089.8	1096.4
35°	996.9	1008.4	1031.8	1058.2	1066.4
37.5°	957.1	968.6	996.9	1026.7	1036.7
40°	915.5	928.8	958.8	993.6	1006.8
42.5°	870.8	889.0	922.2	960.4	975.4
45°	826.0	842.7	884.1	927.2	943.8
47.5°	777.8	797.7	842.7	893.9	913.8
50°	726.6	751.4	802.9	859.3	880.8
52.5°	675.1	703.2	761.2	824.4	847.6
55°	625.2	651.9	721.4	789.5	814.3
57.5°	570.7	603.7	680.0	753.0	777.8
60°	514.3	550.8	638.6	714.9	741.3
62.5°	457.8	499.3	598.8	675.1	703.2
65°	401.4	447.8	552.4	633.6	661.7
67.5°	346.7	398.1	509.1	590.6	618.7
70°	283.7	348.3	462.8	542.4	570.7
72.5°	225.6	300.3	418.0	492.7	517.5
75°	174.2	253.7	368.2	436.3	446.1
77.5°	127.8	207.4	316.7	340.1	341.7
80°	86.2	165.9	242.3	238.8	242.3
82.5°	56.4	124.3	152.6	170.9	172.5
85°	33.2	73.0	89.6	99.5	101.1
87.5°	16.6	24.8	31.6	33.2	36.5
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)