

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: P732242

Luminaire Tested: **24CZ2-45-HRP-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732242
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: 24CZ2-45-HRP-B2750-W2D-3000K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

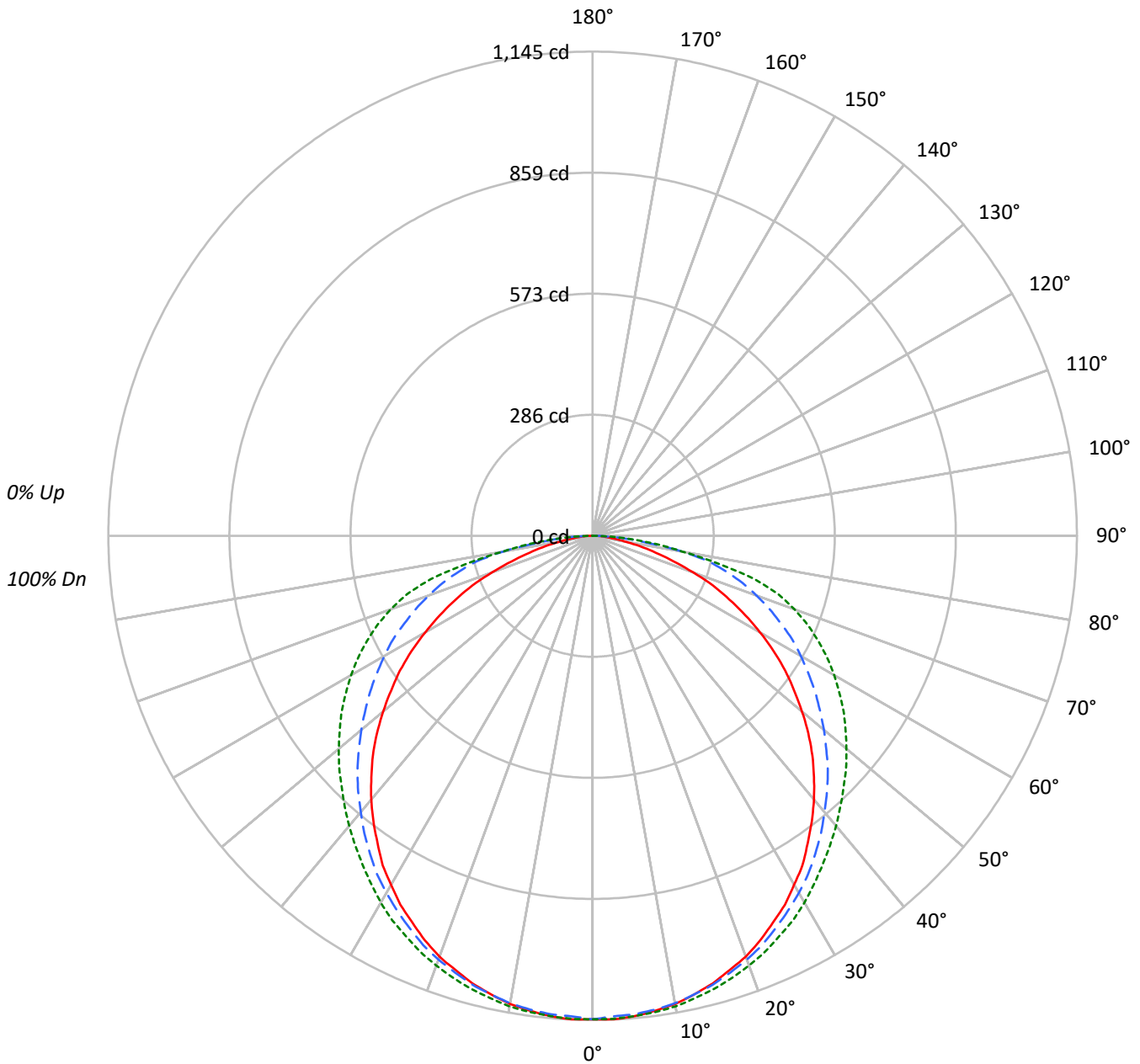
Lumens per Lamp: N/A
Luminaire Lumens: 3524.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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°	1614	1614	1614
5°	1616	1609	1616
10°	1611	1609	1620
15°	1602	1606	1621
20°	1591	1602	1624
25°	1571	1594	1627
30°	1553	1589	1632
35°	1528	1581	1634
40°	1500	1571	1650
45°	1466	1570	1675
50°	1419	1568	1720
55°	1368	1579	1782
60°	1291	1603	1861
65°	1193	1641	1966
70°	1041	1698	2095
75°	845	1786	2164
80°	623	1751	1751
85°	479	1291	1456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.1
10°-20°	311.0	8.8
20°-30°	473.5	13.4
30°-40°	575.0	16.3
40°-50°	607.4	17.2
50°-60°	573.2	16.3
60°-70°	476.6	13.5
70°-80°	313.6	8.9
80°-90°	85.5	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°	892.8	25.3
0°-40°	1467.8	41.7
0°-60°	2648.4	75.2
0°-90°	3524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1140	1140	1136	1140	1140	108
15°	1096	1098	1099	1110	1110	309
25°	1009	1015	1024	1042	1044	465
35°	887	897	918	941	949	555
45°	735	750	786	825	839	566
55°	556	580	642	702	724	495
65°	357	398	491	564	589	353
75°	155	226	328	388	397	167
85°	30	65	80	88	90	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.4	1143.4	1143.4	1143.4	1143.4
2.5°	1144.9	1143.4	1137.4	1143.4	1143.4
5°	1140.5	1140.5	1135.9	1140.5	1140.5
7.5°	1133.0	1133.0	1130.1	1135.9	1135.9
10°	1124.3	1124.3	1122.6	1130.1	1130.1
12.5°	1110.9	1112.4	1110.9	1119.7	1119.7
15°	1096.2	1097.6	1099.1	1109.5	1109.5
17.5°	1077.0	1079.9	1082.8	1094.7	1096.2
20°	1059.3	1060.8	1066.6	1079.9	1081.4
22.5°	1035.6	1040.1	1047.4	1060.8	1065.1
25°	1009.1	1015.0	1023.9	1041.6	1044.5
27.5°	983.9	988.5	1000.2	1019.3	1025.4
30°	953.1	960.4	975.2	994.3	1001.6
32.5°	923.6	930.9	948.6	969.4	975.2
35°	886.7	896.9	917.7	941.3	948.6
37.5°	851.3	861.5	886.7	913.2	922.1
40°	814.3	826.1	852.8	883.8	895.5
42.5°	774.5	790.7	820.3	854.2	867.5
45°	734.7	749.5	786.4	824.7	839.4
47.5°	691.8	709.5	749.5	795.1	812.8
50°	646.2	668.3	714.1	764.3	783.4
52.5°	600.4	625.4	677.1	733.3	753.9
55°	556.1	579.8	641.7	702.2	724.3
57.5°	507.6	536.9	604.8	669.8	691.8
60°	457.4	489.9	568.0	635.8	659.4
62.5°	407.2	444.1	532.6	600.4	625.4
65°	357.1	398.3	491.3	563.6	588.6
67.5°	308.3	354.1	452.8	525.3	550.3
70°	252.3	309.8	411.6	482.4	507.6
72.5°	200.7	267.1	371.8	438.2	460.3
75°	154.9	225.7	327.5	388.1	396.8
77.5°	113.7	184.5	281.7	302.5	304.0
80°	76.6	147.6	215.5	212.4	215.5
82.5°	50.2	110.6	135.7	152.0	153.4
85°	29.6	65.0	79.7	88.5	89.9
87.5°	14.8	22.1	28.1	29.6	32.5
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)