

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: P880653

Luminaire Tested: **22CZ2-24VHE-HRP-B2750-W2D-3000K**

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: P880653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24VHE-HRP-B2750-W2D-3000K
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

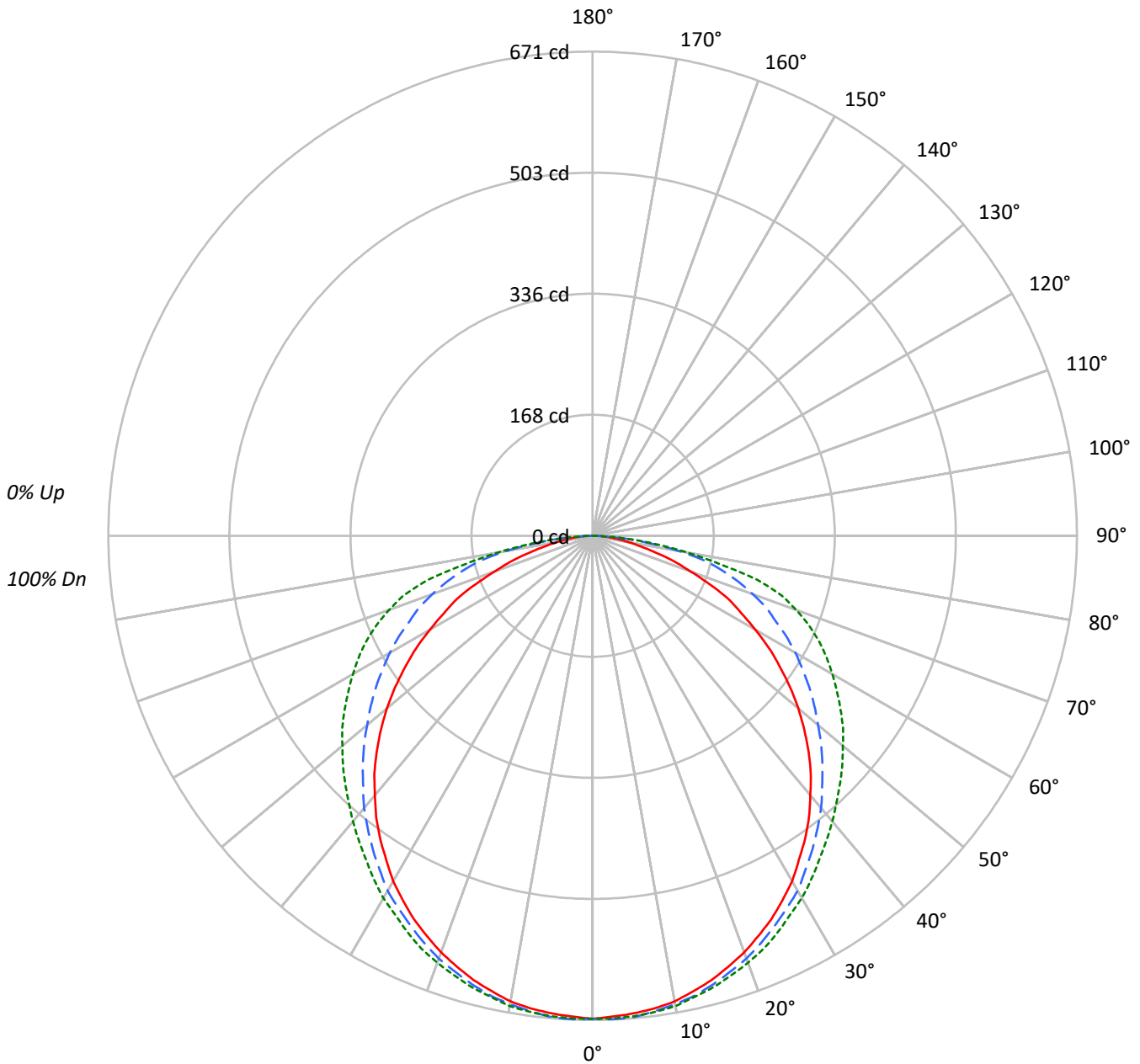
Lumens per Lamp: N/A
Luminaire Lumens: 2033.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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

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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	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	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	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1899	1899	1899
5°	1892	1907	1903
10°	1888	1899	1907
15°	1872	1891	1902
20°	1855	1882	1901
25°	1835	1867	1899
30°	1811	1861	1899
35°	1777	1839	1897
40°	1738	1824	1914
45°	1698	1807	1945
50°	1642	1800	1998
55°	1567	1815	2074
60°	1477	1841	2176
65°	1395	1877	2325
70°	1191	1958	2490
75°	999	2039	2587
80°	819	1971	2159
85°	710	1459	1586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.1
10°-20°	181.5	8.9
20°-30°	275.1	13.5
30°-40°	332.1	16.3
40°-50°	349.0	17.2
50°-60°	328.3	16.2
60°-70°	273.8	13.5
70°-80°	181.4	8.9
80°-90°	48.3	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°	520.0	25.6
0°-40°	852.1	41.9
0°-60°	1529.5	75.2
0°-90°	2033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	669	669	669	669	669	
5°	664	666	669	669	668	63
15°	637	640	644	646	648	180
25°	586	590	596	604	607	270
35°	513	518	531	543	548	321
45°	423	430	450	473	485	326
55°	317	331	367	404	419	283
65°	208	226	280	326	346	202
75°	91	127	186	224	236	99
85°	22	33	45	49	49	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.4	669.4	669.4	669.4	669.4
2.5°	666.9	668.1	670.7	670.7	669.4
5°	664.3	665.6	669.4	669.4	668.1
7.5°	660.5	661.9	664.3	666.9	665.6
10°	655.3	656.6	659.2	661.9	661.9
12.5°	646.4	647.6	652.8	654.2	654.2
15°	637.4	640.0	643.8	646.4	647.6
17.5°	625.9	628.4	633.6	638.7	638.7
20°	614.3	616.9	623.3	628.4	629.6
22.5°	600.2	604.1	610.5	616.9	619.5
25°	586.1	590.0	596.4	604.1	606.6
27.5°	569.4	573.2	582.3	591.3	592.4
30°	552.7	556.6	568.1	575.8	579.7
32.5°	532.2	537.3	548.9	560.4	564.2
35°	513.0	518.1	530.9	542.6	547.6
37.5°	492.5	497.5	511.7	525.9	532.2
40°	469.3	475.8	492.5	507.9	516.8
42.5°	447.6	454.1	470.7	491.2	500.2
45°	423.2	429.6	450.2	473.1	484.8
47.5°	397.6	405.2	429.6	457.9	469.3
50°	371.9	380.9	407.8	439.8	452.6
52.5°	344.9	356.6	387.3	422.0	437.3
55°	316.7	330.9	366.8	404.0	419.3
57.5°	289.8	302.7	344.9	384.7	401.4
60°	260.3	277.0	324.4	365.4	383.5
62.5°	232.2	250.1	302.7	346.3	365.4
65°	207.8	225.6	279.6	325.7	346.3
67.5°	175.7	200.1	260.3	303.9	324.4
70°	143.6	176.9	236.0	280.8	300.1
72.5°	119.3	151.3	211.7	256.5	274.4
75°	91.1	127.0	186.0	224.5	236.0
77.5°	68.0	105.2	159.0	178.3	179.5
80°	50.1	80.7	120.6	127.0	132.1
82.5°	34.7	56.4	78.3	85.8	88.5
85°	21.8	33.3	44.8	48.7	48.7
87.5°	11.5	12.8	15.4	15.4	15.4
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)