

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: P880677

Luminaire Tested: **22CZ2-29VHE-HRP-B2750-W2D-2700K**

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: P880677
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: 22CZ2-29VHE-HRP-B2750-W2D-2700K
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

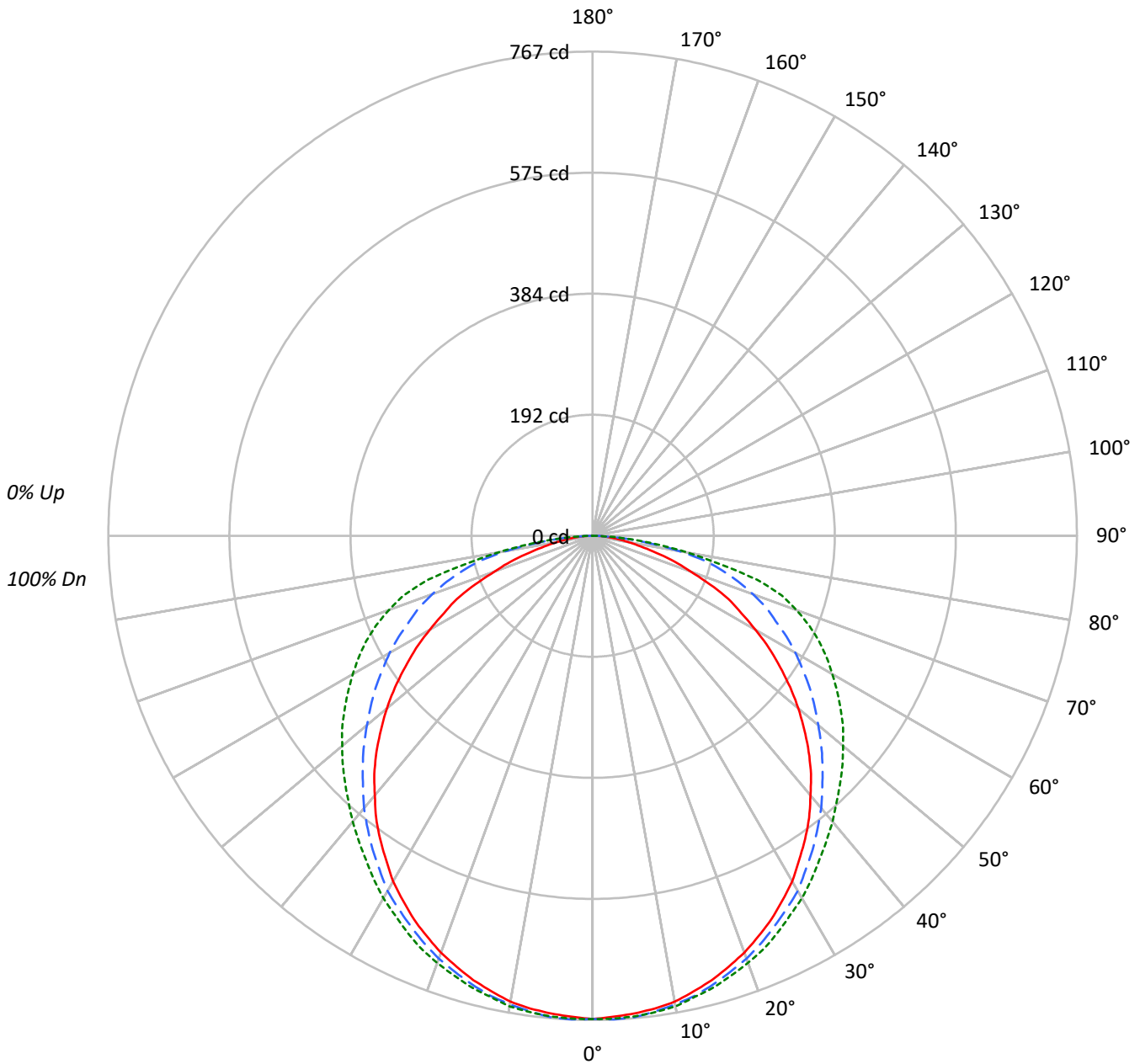
Lumens per Lamp: N/A
Luminaire Lumens: 2325.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	2172	2172	2172
5°	2164	2181	2176
10°	2160	2172	2181
15°	2141	2163	2176
20°	2122	2152	2174
25°	2099	2136	2172
30°	2071	2129	2172
35°	2032	2103	2169
40°	1988	2086	2190
45°	1942	2066	2225
50°	1878	2059	2285
55°	1792	2075	2373
60°	1689	2105	2489
65°	1596	2147	2659
70°	1363	2239	2847
75°	1142	2332	2959
80°	936	2253	2469
85°	811	1670	1813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.1
10°-20°	207.6	8.9
20°-30°	314.6	13.5
30°-40°	379.8	16.3
40°-50°	399.1	17.2
50°-60°	375.5	16.2
60°-70°	313.1	13.5
70°-80°	207.5	8.9
80°-90°	55.3	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°	594.7	25.6
0°-40°	974.5	41.9
0°-60°	1749.2	75.2
0°-90°	2325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	760	761	766	766	764	72
15°	729	732	736	739	741	206
25°	670	675	682	691	694	309
35°	587	592	607	620	626	367
45°	484	491	515	541	554	373
55°	362	378	420	462	480	324
65°	238	258	320	372	396	231
75°	104	145	213	257	270	113
85°	25	38	51	56	56	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.6	765.6	765.6	765.6	765.6
2.5°	762.6	764.1	767.0	767.0	765.6
5°	759.7	761.2	765.6	765.6	764.1
7.5°	755.3	756.9	759.7	762.6	761.2
10°	749.5	750.9	753.9	756.9	756.9
12.5°	739.2	740.7	746.5	748.1	748.1
15°	728.9	731.9	736.3	739.2	740.7
17.5°	715.8	718.7	724.5	730.4	730.4
20°	702.6	705.5	712.8	718.7	720.0
22.5°	686.5	690.8	698.2	705.5	708.4
25°	670.3	674.7	682.1	690.8	693.8
27.5°	651.1	655.5	665.9	676.2	677.5
30°	632.1	636.5	649.7	658.5	663.0
32.5°	608.7	614.5	627.7	640.9	645.3
35°	586.7	592.5	607.2	620.5	626.2
37.5°	563.2	568.9	585.2	601.5	608.7
40°	536.7	544.2	563.2	580.8	591.1
42.5°	511.9	519.3	538.3	561.8	572.0
45°	484.0	491.3	514.9	541.1	554.4
47.5°	454.7	463.4	491.3	523.7	536.7
50°	425.4	435.6	466.4	503.0	517.7
52.5°	394.4	407.8	442.9	482.6	500.1
55°	362.2	378.5	419.5	462.0	479.6
57.5°	331.4	346.2	394.4	440.0	459.1
60°	297.7	316.8	371.0	417.9	438.5
62.5°	265.5	286.0	346.2	396.0	417.9
65°	237.7	258.0	319.7	372.5	396.0
67.5°	200.9	228.9	297.7	347.5	371.0
70°	164.3	202.3	269.9	321.2	343.2
72.5°	136.4	173.0	242.1	293.3	313.8
75°	104.2	145.2	212.7	256.7	269.9
77.5°	77.8	120.3	181.8	204.0	205.3
80°	57.3	92.3	137.9	145.2	151.1
82.5°	39.7	64.5	89.5	98.2	101.2
85°	24.9	38.1	51.3	55.7	55.7
87.5°	13.2	14.7	17.6	17.6	17.6
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)