

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: P880678

Luminaire Tested: **22CZ2-29VHE-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: P880678
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-3000K
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

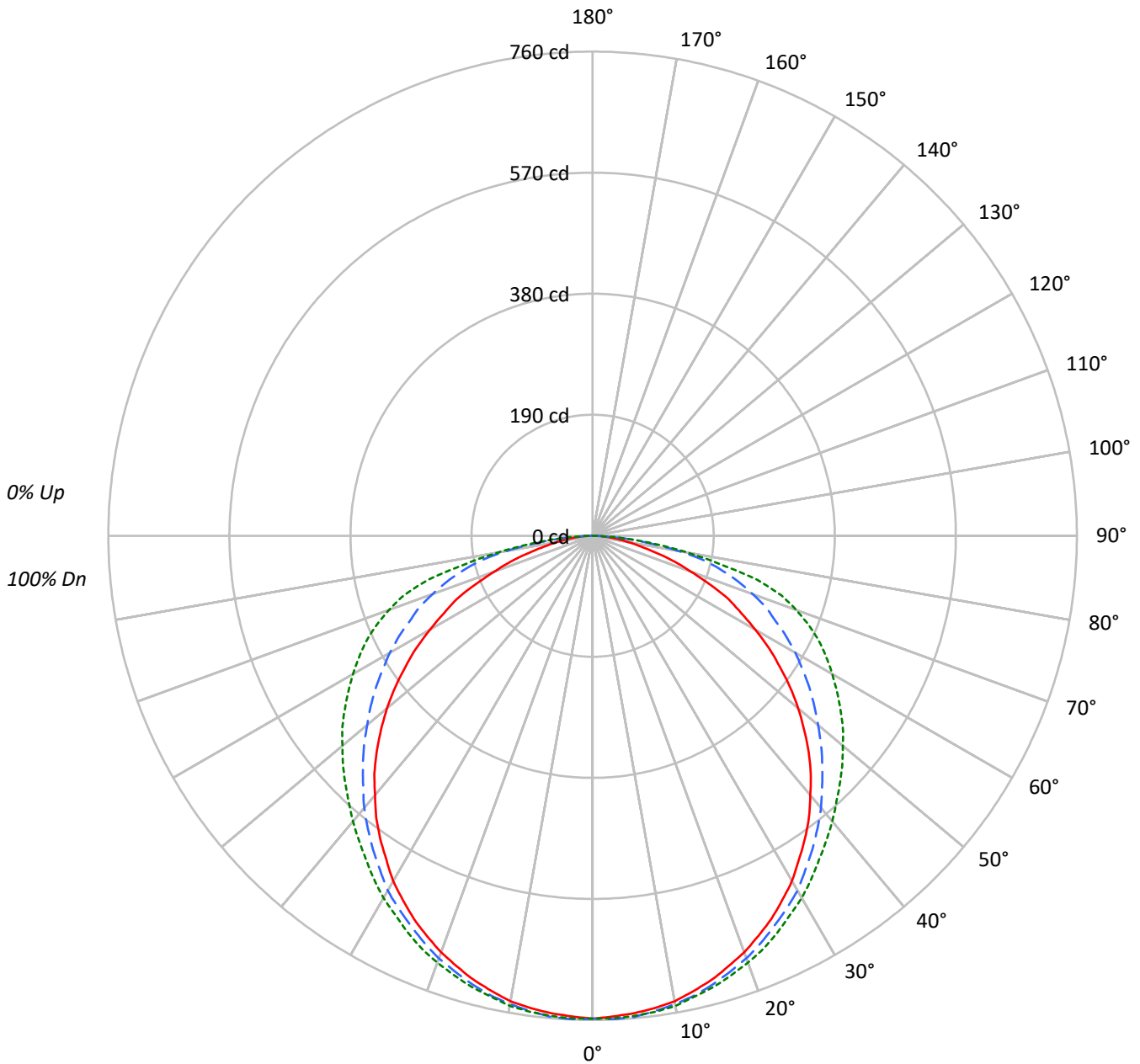
Lumens per Lamp: N/A
Luminaire Lumens: 2302.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2151	2151	2151
5°	2143	2159	2155
10°	2138	2151	2159
15°	2120	2142	2154
20°	2100	2131	2153
25°	2078	2114	2151
30°	2050	2107	2151
35°	2012	2083	2148
40°	1968	2066	2168
45°	1923	2046	2203
50°	1859	2039	2262
55°	1774	2055	2349
60°	1673	2084	2464
65°	1580	2125	2633
70°	1349	2217	2819
75°	1130	2309	2929
80°	927	2231	2445
85°	804	1654	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	3.1
10°-20°	205.5	8.9
20°-30°	311.5	13.5
30°-40°	376.1	16.3
40°-50°	395.2	17.2
50°-60°	371.8	16.2
60°-70°	310.0	13.5
70°-80°	205.4	8.9
80°-90°	54.7	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°	588.8	25.6
0°-40°	964.9	41.9
0°-60°	1731.9	75.2
0°-90°	2302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	752	754	758	758	757	71
15°	722	725	729	732	733	204
25°	664	668	675	684	687	306
35°	581	587	601	614	620	363
45°	479	486	510	536	549	369
55°	359	375	415	457	475	321
65°	235	256	316	369	392	229
75°	103	144	211	254	267	112
85°	25	38	51	55	55	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.0	758.0	758.0	758.0	758.0
2.5°	755.1	756.6	759.5	759.5	758.0
5°	752.2	753.6	758.0	758.0	756.6
7.5°	747.8	749.4	752.2	755.1	753.6
10°	742.0	743.5	746.4	749.4	749.4
12.5°	731.9	733.3	739.1	740.7	740.7
15°	721.7	724.6	729.0	731.9	733.3
17.5°	708.7	711.6	717.4	723.2	723.2
20°	695.6	698.5	705.8	711.6	712.9
22.5°	679.7	684.0	691.3	698.5	701.4
25°	663.7	668.1	675.3	684.0	686.9
27.5°	644.7	649.1	659.4	669.5	670.8
30°	625.8	630.2	643.2	652.0	656.5
32.5°	602.6	608.4	621.5	634.5	638.9
35°	580.9	586.7	601.2	614.4	620.0
37.5°	557.7	563.3	579.4	595.5	602.6
40°	531.4	538.8	557.7	575.1	585.2
42.5°	506.9	514.1	533.0	556.2	566.4
45°	479.2	486.4	509.8	535.8	549.0
47.5°	450.2	458.9	486.4	518.5	531.4
50°	421.1	431.3	461.8	498.0	512.5
52.5°	390.5	403.7	438.6	477.9	495.1
55°	358.6	374.7	415.3	457.4	474.8
57.5°	328.2	342.8	390.5	435.7	454.5
60°	294.8	313.6	367.3	413.7	434.2
62.5°	262.9	283.2	342.8	392.1	413.7
65°	235.3	255.5	316.5	368.8	392.1
67.5°	198.9	226.6	294.8	344.1	367.3
70°	162.6	200.3	267.2	318.0	339.8
72.5°	135.1	171.3	239.7	290.4	310.7
75°	103.1	143.8	210.6	254.2	267.2
77.5°	77.0	119.1	180.0	201.9	203.2
80°	56.7	91.4	136.5	143.8	149.6
82.5°	39.3	63.8	88.6	97.2	100.2
85°	24.7	37.7	50.8	55.1	55.1
87.5°	13.1	14.5	17.4	17.4	17.4
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)