

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: P731993

Luminaire Tested: **22CZ2-29HE-HRP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29HE-HRP-B2750-W2D-3500K  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

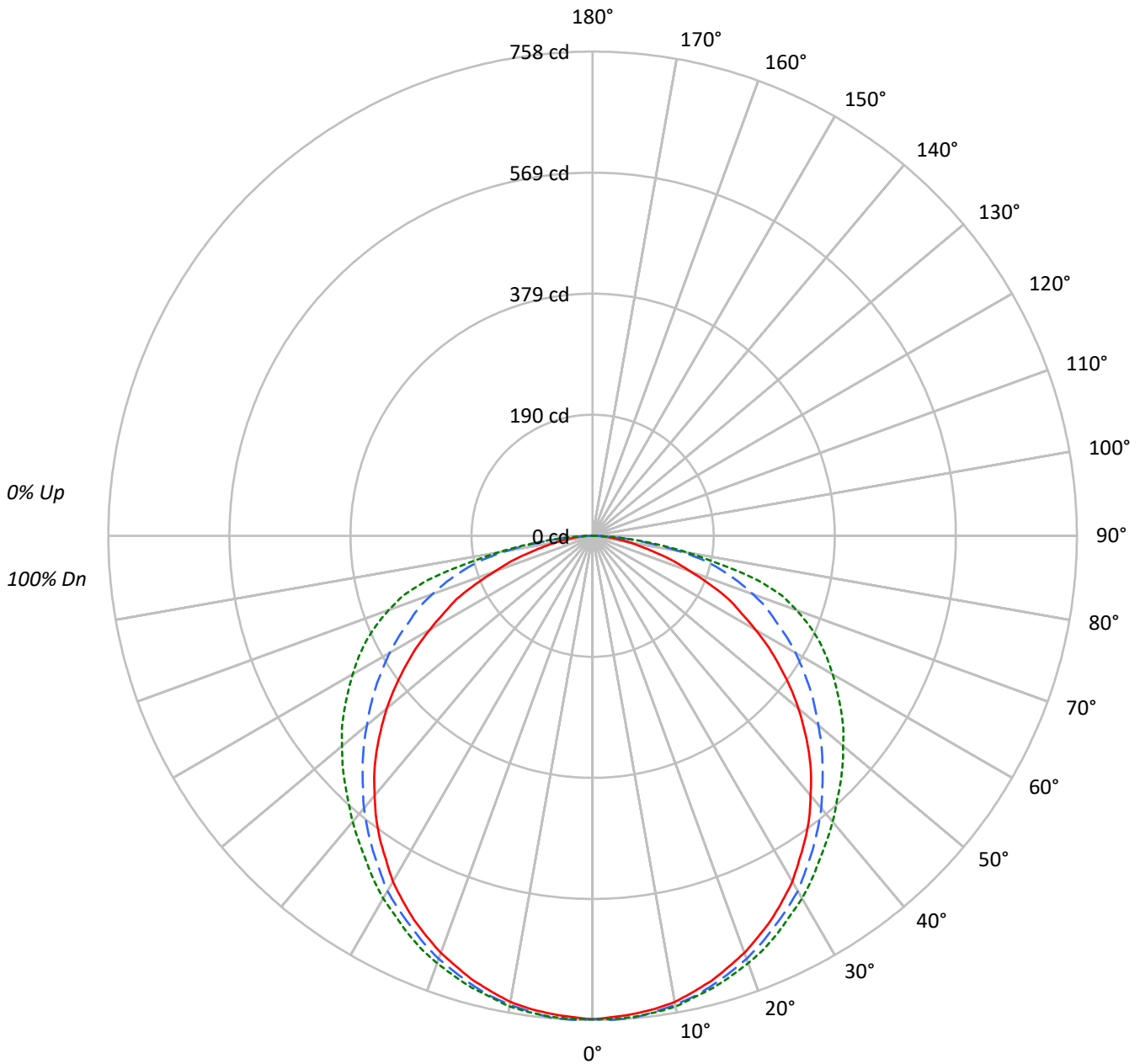
Lumens per Lamp: N/A  
Luminaire Lumens: 2299.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P731993

CATALOG NUMBER: 22CZ2-29HE-HRP-B2750-W2D-3500K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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°	2148	2148	2148
5°	2140	2156	2153
10°	2135	2148	2156
15°	2117	2139	2151
20°	2098	2129	2150
25°	2075	2111	2147
30°	2048	2105	2148
35°	2009	2080	2145
40°	1966	2063	2165
45°	1921	2043	2200
50°	1857	2036	2260
55°	1773	2052	2346
60°	1671	2082	2461
65°	1578	2122	2629
70°	1347	2213	2815
75°	1128	2306	2925
80°	925	2227	2440
85°	804	1654	1791



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.1
10°-20°	205.2	8.9
20°-30°	311.0	13.5
30°-40°	375.6	16.3
40°-50°	394.7	17.2
50°-60°	371.3	16.2
60°-70°	309.6	13.5
70°-80°	205.1	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°	588.0	25.6
0°-40°	963.6	41.9
0°-60°	1729.6	75.2
0°-90°	2299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2299.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	751	753	757	757	756	71
15°	721	724	728	731	732	203
25°	663	667	674	683	686	305
35°	580	586	600	613	619	363
45°	479	486	509	535	548	369
55°	358	374	415	457	474	320
65°	235	255	316	368	392	229
75°	103	144	210	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°	757.0	757.0	757.0	757.0	757.0
2.5°	754.1	755.7	758.5	758.5	757.0
5°	751.3	752.6	757.0	757.0	755.7
7.5°	746.9	748.4	751.3	754.1	752.6
10°	741.1	742.5	745.5	748.4	748.4
12.5°	730.9	732.3	738.2	739.6	739.6
15°	720.8	723.7	728.1	730.9	732.3
17.5°	707.7	710.6	716.4	722.3	722.3
20°	694.7	697.6	704.9	710.6	712.1
22.5°	678.8	683.0	690.3	697.6	700.5
25°	662.7	667.1	674.4	683.0	685.9
27.5°	643.9	648.3	658.5	668.6	670.0
30°	625.1	629.3	642.4	651.2	655.6
32.5°	601.9	607.7	620.7	633.8	638.2
35°	580.1	585.8	600.4	613.4	619.2
37.5°	556.9	562.6	578.7	594.6	601.9
40°	530.8	538.1	556.9	574.3	584.5
42.5°	506.1	513.4	532.2	555.5	565.5
45°	478.7	485.8	509.0	535.2	548.2
47.5°	449.5	458.3	485.8	517.8	530.8
50°	420.6	430.7	461.2	497.5	512.0
52.5°	390.1	403.1	438.0	477.1	494.6
55°	358.3	374.2	414.8	456.8	474.3
57.5°	327.8	342.2	390.1	435.1	453.9
60°	294.4	313.2	366.9	413.3	433.6
62.5°	262.4	282.8	342.2	391.6	413.3
65°	235.0	255.2	316.1	368.4	391.6
67.5°	198.6	226.2	294.4	343.7	366.9
70°	162.4	200.1	266.8	317.6	339.3
72.5°	134.9	171.2	239.2	290.0	310.4
75°	102.9	143.6	210.3	253.8	266.8
77.5°	76.9	118.9	179.8	201.7	203.0
80°	56.6	91.4	136.3	143.6	149.3
82.5°	39.1	63.8	88.4	97.2	100.1
85°	24.7	37.8	50.8	55.0	55.0
87.5°	13.0	14.6	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)