

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: P842967

Luminaire Tested: **22CZ2-44HE-HRP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842967  
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: 22CZ2-44HE-HRP-UNV-B50  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

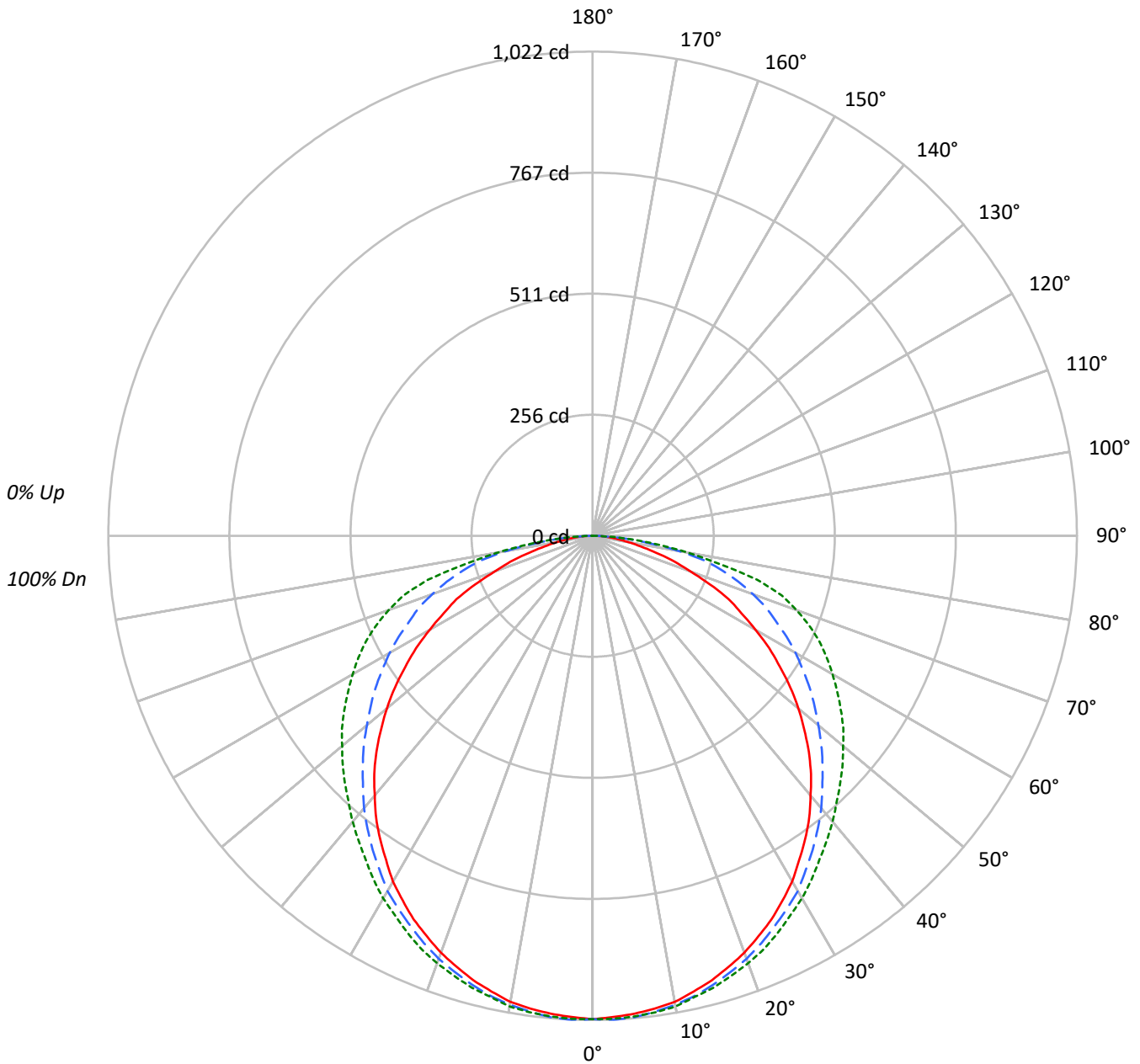
Lumens per Lamp: N/A  
Luminaire Lumens: 3099.0 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
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

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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°	2895	2895	2895
5°	2885	2906	2901
10°	2878	2895	2907
15°	2854	2883	2900
20°	2828	2869	2899
25°	2797	2846	2895
30°	2761	2837	2895
35°	2708	2803	2891
40°	2650	2781	2918
45°	2589	2753	2966
50°	2503	2744	3047
55°	2389	2766	3163
60°	2252	2807	3317
65°	2127	2861	3544
70°	1816	2984	3795
75°	1522	3108	3944
80°	1245	3002	3289
85°	1084	2230	2416



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	3.1
10°-20°	276.7	8.9
20°-30°	419.3	13.5
30°-40°	506.3	16.3
40°-50°	532.0	17.2
50°-60°	500.6	16.2
60°-70°	417.3	13.5
70°-80°	276.5	8.9
80°-90°	73.7	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°	792.6	25.6
0°-40°	1298.9	41.9
0°-60°	2331.4	75.2
0°-90°	3099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3099.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1013	1014	1020	1020	1019	96
15°	972	976	981	985	987	274
25°	893	899	909	921	925	411
35°	782	790	809	827	835	489
45°	645	655	686	721	739	497
55°	483	504	559	616	639	432
65°	317	344	426	497	528	308
75°	139	194	284	342	360	151
85°	33	51	68	74	74	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1020.4	1020.4	1020.4	1020.4	1020.4
2.5°	1016.6	1018.6	1022.5	1022.5	1020.4
5°	1012.7	1014.5	1020.4	1020.4	1018.6
7.5°	1006.7	1008.8	1012.7	1016.6	1014.5
10°	999.0	1000.8	1004.9	1008.8	1008.8
12.5°	985.3	987.1	995.1	996.9	996.9
15°	971.6	975.5	981.4	985.3	987.1
17.5°	954.0	957.9	965.7	973.6	973.6
20°	936.4	940.3	950.1	957.9	960.0
22.5°	915.0	920.7	930.5	940.3	944.2
25°	893.3	899.2	909.1	920.7	924.6
27.5°	868.0	873.9	887.6	901.3	903.1
30°	842.6	848.3	865.9	877.8	883.7
32.5°	811.4	819.1	836.7	854.3	860.2
35°	781.9	789.7	809.3	826.9	834.7
37.5°	750.7	758.4	780.1	801.6	811.4
40°	715.5	725.3	750.7	774.2	787.9
42.5°	682.2	692.0	717.3	748.8	762.3
45°	645.2	654.8	686.1	721.4	739.0
47.5°	606.0	617.8	654.8	697.9	715.5
50°	566.9	580.6	621.7	670.6	690.2
52.5°	525.9	543.4	590.4	643.2	666.7
55°	482.9	504.4	559.2	615.8	639.3
57.5°	441.9	461.3	525.9	586.6	611.9
60°	396.9	422.2	494.6	557.1	584.5
62.5°	353.8	381.2	461.3	527.9	557.1
65°	316.8	343.9	426.1	496.6	527.9
67.5°	267.7	304.9	396.9	463.3	494.6
70°	218.9	269.8	359.7	428.2	457.4
72.5°	181.9	230.7	322.5	391.0	418.4
75°	138.8	193.5	283.5	342.1	359.7
77.5°	103.6	160.2	242.4	271.8	273.7
80°	76.2	123.2	183.7	193.5	201.3
82.5°	52.7	86.0	119.1	131.0	134.9
85°	33.3	50.9	68.5	74.2	74.2
87.5°	17.6	19.6	23.5	23.5	23.5
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)