

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: P732217

Luminaire Tested: **24CZ2-40HE-HRP-B2750-W2D-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-40HE-HRP-B2750-W2D-3000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

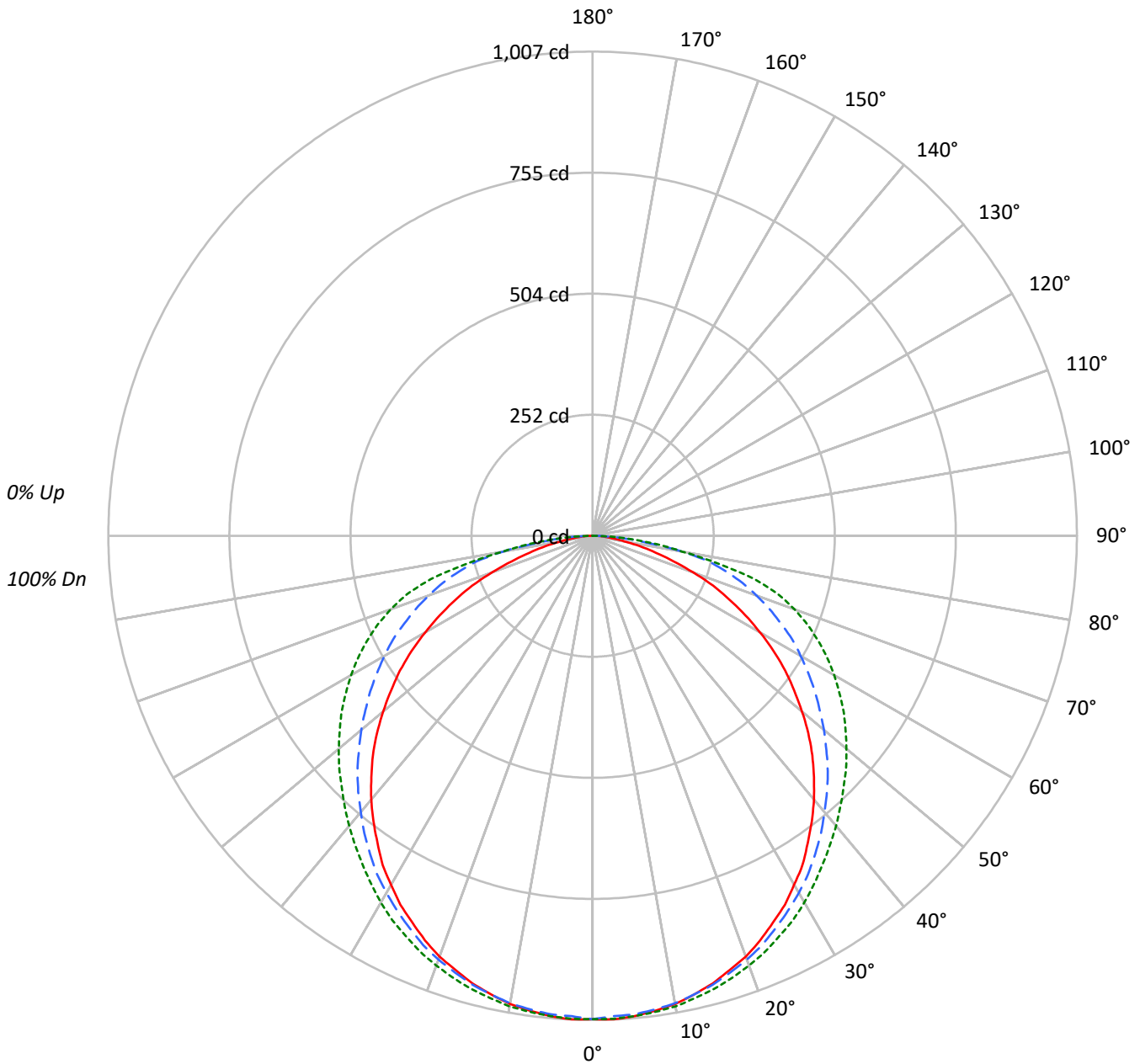
Lumens per Lamp: N/A  
Luminaire Lumens: 3099.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 29  
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	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	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	24	35	29	24	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1419	1419	1419
5°	1421	1415	1421
10°	1417	1415	1424
15°	1409	1412	1426
20°	1399	1409	1428
25°	1382	1402	1430
30°	1366	1398	1435
35°	1344	1390	1437
40°	1319	1382	1451
45°	1290	1380	1473
50°	1248	1379	1513
55°	1203	1389	1567
60°	1135	1410	1637
65°	1049	1443	1729
70°	916	1494	1842
75°	743	1570	1903
80°	548	1540	1540
85°	421	1135	1281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	3.1
10°-20°	273.5	8.8
20°-30°	416.4	13.4
30°-40°	505.6	16.3
40°-50°	534.2	17.2
50°-60°	504.0	16.3
60°-70°	419.1	13.5
70°-80°	275.8	8.9
80°-90°	75.2	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°	785.2	25.3
0°-40°	1290.8	41.7
0°-60°	2329.0	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°	1006	1006	1006	1006	1006	
5°	1003	1003	999	1003	1003	95
15°	964	965	966	976	976	272
25°	887	893	900	916	919	409
35°	780	789	807	828	834	488
45°	646	659	692	725	738	498
55°	489	510	564	618	637	436
65°	314	350	432	496	518	310
75°	136	198	288	341	349	147
85°	26	57	70	78	79	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1005.5	1005.5	1005.5	1005.5	1005.5
2.5°	1006.8	1005.5	1000.2	1005.5	1005.5
5°	1002.9	1002.9	998.9	1002.9	1002.9
7.5°	996.4	996.4	993.8	998.9	998.9
10°	988.7	988.7	987.2	993.8	993.8
12.5°	977.0	978.2	977.0	984.7	984.7
15°	964.0	965.2	966.5	975.7	975.7
17.5°	947.1	949.7	952.2	962.7	964.0
20°	931.5	932.8	938.0	949.7	951.0
22.5°	910.7	914.7	921.1	932.8	936.7
25°	887.4	892.6	900.4	916.0	918.6
27.5°	865.3	869.3	879.6	896.4	901.7
30°	838.2	844.6	857.6	874.4	880.8
32.5°	812.2	818.6	834.2	852.4	857.6
35°	779.8	788.7	807.0	827.7	834.2
37.5°	748.6	757.6	779.8	803.0	810.9
40°	716.1	726.5	749.9	777.2	787.5
42.5°	681.1	695.4	721.4	751.2	762.9
45°	646.1	659.1	691.5	725.2	738.2
47.5°	608.4	624.0	659.1	699.2	714.8
50°	568.3	587.7	628.0	672.1	689.0
52.5°	528.0	550.0	595.4	644.8	663.0
55°	489.0	509.9	564.3	617.6	637.0
57.5°	446.4	472.2	531.9	589.0	608.4
60°	402.2	430.8	499.5	559.2	579.8
62.5°	358.1	390.5	468.3	528.0	550.0
65°	314.0	350.3	432.1	495.6	517.6
67.5°	271.2	311.4	398.2	461.9	483.9
70°	221.9	272.4	362.0	424.2	446.4
72.5°	176.5	234.9	327.0	385.4	404.8
75°	136.2	198.5	288.0	341.3	349.0
77.5°	100.0	162.2	247.7	266.0	267.3
80°	67.4	129.8	189.5	186.8	189.5
82.5°	44.1	97.2	119.4	133.7	134.9
85°	26.0	57.1	70.1	77.8	79.1
87.5°	13.0	19.4	24.7	26.0	28.6
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)