

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: P732220

Luminaire Tested: **24CZ2-40HE-HRP-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732220  
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-5000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

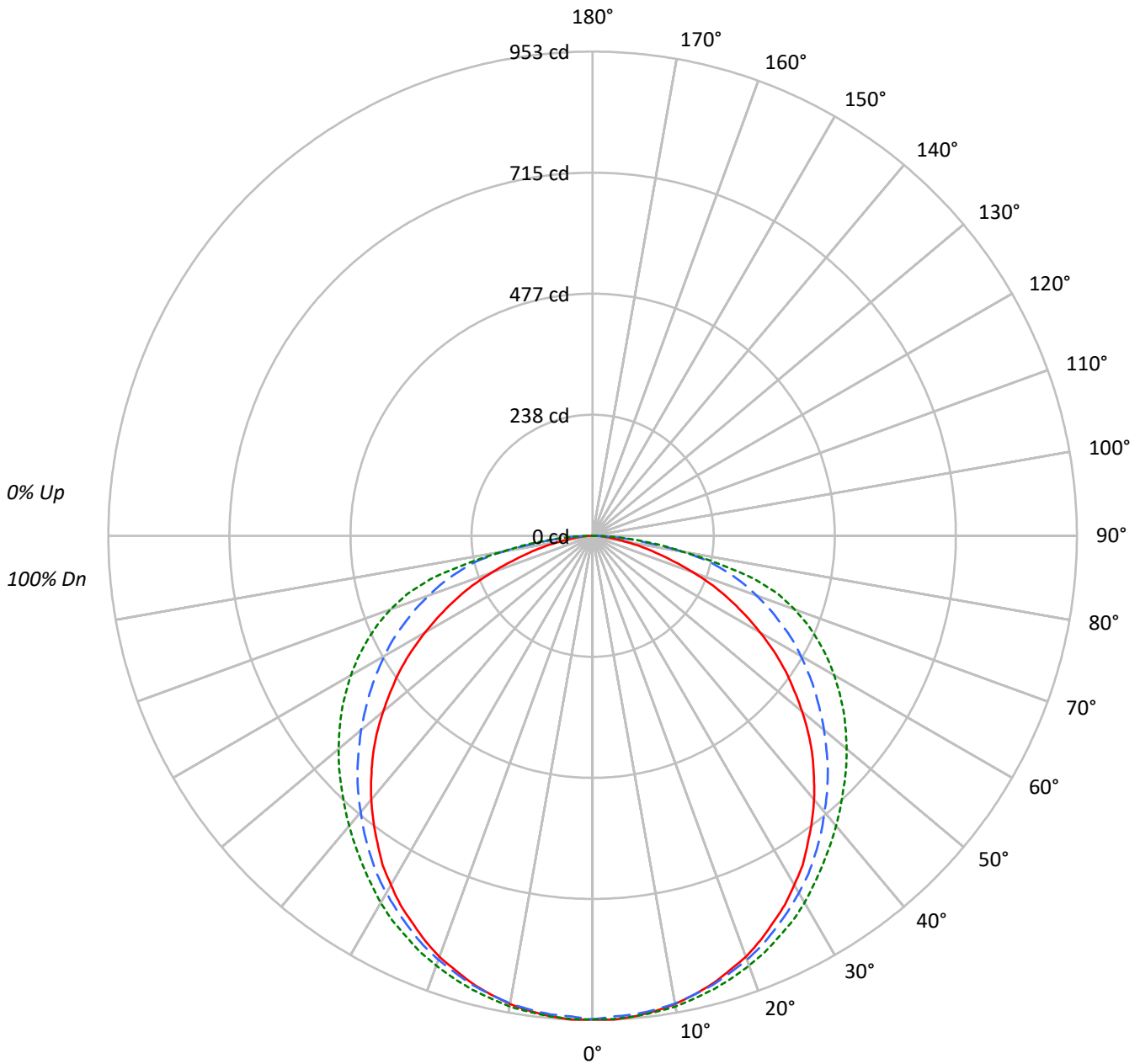
Lumens per Lamp: N/A  
Luminaire Lumens: 2934.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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	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°	1344	1344	1344
5°	1345	1340	1345
10°	1341	1340	1348
15°	1333	1337	1350
20°	1325	1334	1352
25°	1308	1328	1354
30°	1293	1323	1359
35°	1272	1316	1361
40°	1249	1308	1373
45°	1221	1307	1395
50°	1181	1305	1432
55°	1139	1314	1484
60°	1075	1335	1550
65°	993	1366	1636
70°	867	1414	1744
75°	703	1487	1802
80°	519	1458	1458
85°	398	1075	1213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	3.1
10°-20°	259.0	8.8
20°-30°	394.2	13.4
30°-40°	478.7	16.3
40°-50°	505.7	17.2
50°-60°	477.2	16.3
60°-70°	396.8	13.5
70°-80°	261.1	8.9
80°-90°	71.2	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°	743.4	25.3
0°-40°	1222.0	41.7
0°-60°	2205.0	75.2
0°-90°	2934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	950	950	946	950	950	90
15°	913	914	915	924	924	257
25°	840	845	852	867	870	388
35°	738	747	764	784	790	462
45°	612	624	655	687	699	471
55°	463	483	534	585	603	412
65°	297	332	409	469	490	294
75°	129	188	273	323	330	139
85°	25	54	66	74	75	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	952.0	952.0	952.0	952.0	952.0
2.5°	953.2	952.0	947.0	952.0	952.0
5°	949.5	949.5	945.7	949.5	949.5
7.5°	943.3	943.3	940.9	945.7	945.7
10°	936.0	936.0	934.7	940.9	940.9
12.5°	924.9	926.2	924.9	932.2	932.2
15°	912.6	913.8	915.1	923.7	923.7
17.5°	896.7	899.1	901.5	911.4	912.6
20°	881.9	883.2	888.0	899.1	900.3
22.5°	862.2	866.0	872.1	883.2	886.8
25°	840.2	845.0	852.5	867.2	869.6
27.5°	819.2	823.0	832.7	848.7	853.7
30°	793.5	799.6	811.9	827.9	833.9
32.5°	768.9	775.0	789.7	807.1	811.9
35°	738.2	746.8	764.1	783.7	789.7
37.5°	708.8	717.3	738.2	760.3	767.7
40°	677.9	687.8	710.0	735.8	745.5
42.5°	644.8	658.3	683.0	711.2	722.3
45°	611.7	624.0	654.7	686.6	698.9
47.5°	576.0	590.8	624.0	662.0	676.7
50°	538.0	556.4	594.5	636.3	652.3
52.5°	499.9	520.7	563.7	610.5	627.7
55°	463.0	482.7	534.2	584.7	603.1
57.5°	422.6	447.1	503.6	557.6	576.0
60°	380.8	407.9	472.9	529.4	549.0
62.5°	339.0	369.7	443.4	499.9	520.7
65°	297.3	331.6	409.1	469.2	490.0
67.5°	256.7	294.8	377.0	437.3	458.1
70°	210.1	257.9	342.7	401.6	422.6
72.5°	167.1	222.4	309.6	364.9	383.3
75°	129.0	187.9	272.7	323.1	330.4
77.5°	94.6	153.6	234.5	251.9	253.1
80°	63.8	122.9	179.4	176.8	179.4
82.5°	41.8	92.1	113.0	126.5	127.8
85°	24.6	54.1	66.4	73.7	74.9
87.5°	12.3	18.4	23.4	24.6	27.0
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)