

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: P732194

Luminaire Tested: **24CZ2-40-HRP-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732194  
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: 24CZ2-40-HRP-B2750-W2D-4000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

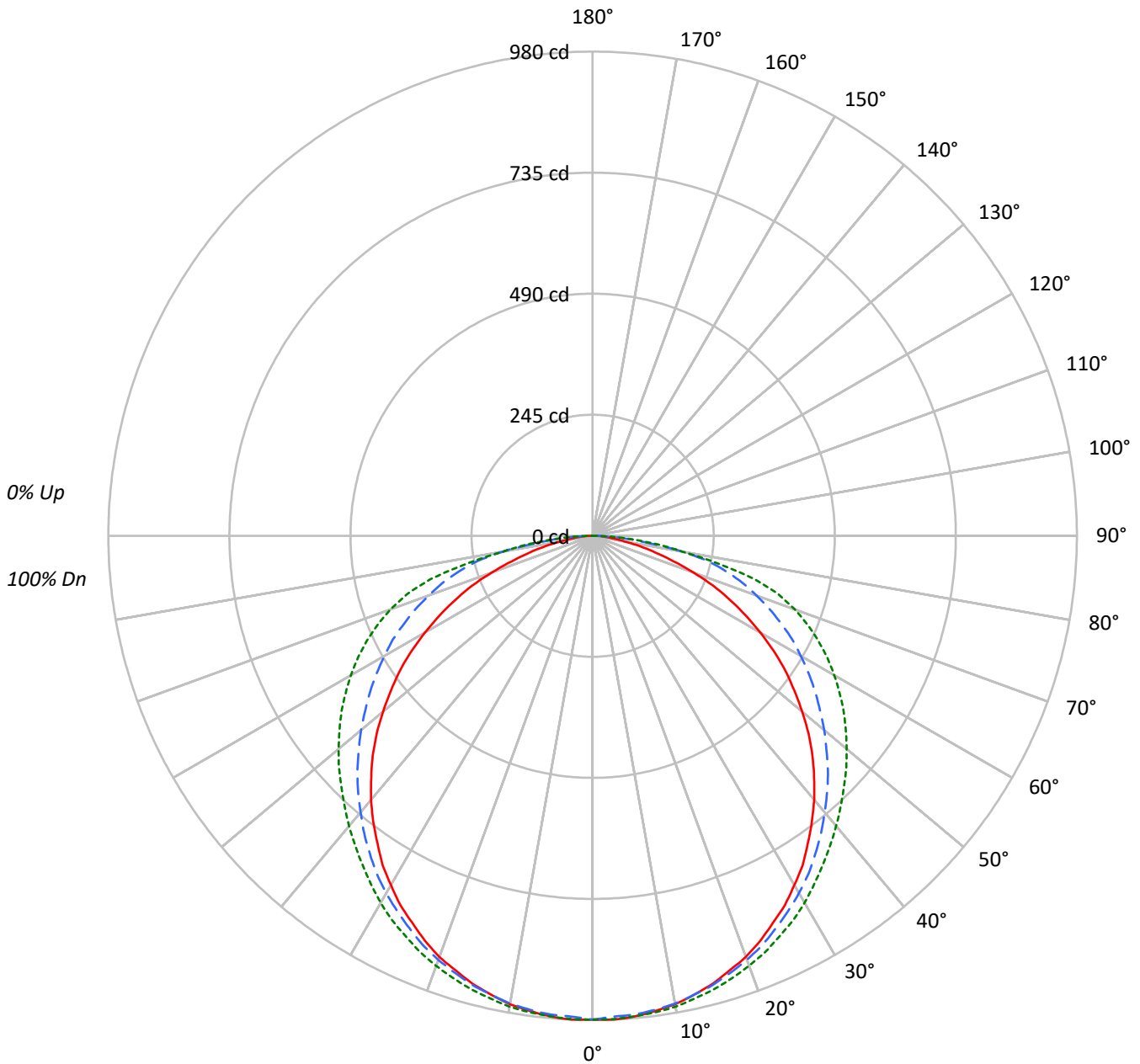
Lumens per Lamp: N/A  
Luminaire Lumens: 3018.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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: P732194

CATALOG NUMBER: 24CZ2-40-HRP-B2750-W2D-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732194

CATALOG NUMBER: 24CZ2-40-HRP-B2750-W2D-4000K

**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°	1382	1382	1382
5°	1384	1378	1384
10°	1380	1378	1387
15°	1372	1375	1388
20°	1363	1372	1391
25°	1346	1366	1393
30°	1330	1361	1398
35°	1308	1354	1400
40°	1285	1345	1413
45°	1256	1344	1435
50°	1215	1343	1473
55°	1172	1352	1526
60°	1106	1373	1594
65°	1021	1405	1683
70°	892	1455	1794
75°	724	1530	1853
80°	533	1500	1500
85°	410	1106	1247



TEST NUMBER: P732194

CATALOG NUMBER: 24CZ2-40-HRP-B2750-W2D-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	3.1
10°-20°	266.4	8.8
20°-30°	405.5	13.4
30°-40°	492.4	16.3
40°-50°	520.2	17.2
50°-60°	490.9	16.3
60°-70°	408.1	13.5
70°-80°	268.5	8.9
80°-90°	73.2	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°	764.6	25.3
0°-40°	1257.0	41.7
0°-60°	2268.1	75.2
0°-90°	3018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	977	977	973	977	977	93
15°	939	940	941	950	950	265
25°	864	869	877	892	894	399
35°	759	768	786	806	812	475
45°	629	642	673	706	719	485
55°	476	497	550	601	620	424
65°	306	341	421	483	504	302
75°	133	193	280	332	340	143
85°	25	56	68	76	77	31
90°	0	0	0	0	0	



TEST NUMBER: P732194

CATALOG NUMBER: 24CZ2-40-HRP-B2750-W2D-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	979.2	979.2	979.2	979.2	979.2
2.5°	980.5	979.2	974.1	979.2	979.2
5°	976.7	976.7	972.8	976.7	976.7
7.5°	970.3	970.3	967.8	972.8	972.8
10°	962.8	962.8	961.4	967.8	967.8
12.5°	951.4	952.7	951.4	958.9	958.9
15°	938.8	940.0	941.3	950.2	950.2
17.5°	922.4	924.9	927.4	937.5	938.8
20°	907.2	908.4	913.4	924.9	926.1
22.5°	886.9	890.8	897.0	908.4	912.2
25°	864.2	869.2	876.9	892.0	894.5
27.5°	842.7	846.6	856.6	873.0	878.1
30°	816.3	822.5	835.2	851.6	857.8
32.5°	790.9	797.2	812.4	830.2	835.2
35°	759.4	768.1	785.9	806.1	812.4
37.5°	729.1	737.8	759.4	782.0	789.7
40°	697.4	707.5	730.3	756.9	766.9
42.5°	663.3	677.2	702.5	731.6	743.0
45°	629.2	641.9	673.4	706.3	718.9
47.5°	592.5	607.7	641.9	680.9	696.1
50°	553.4	572.4	611.6	654.5	670.9
52.5°	514.2	535.6	579.9	628.0	645.6
55°	476.3	496.6	549.5	601.4	620.3
57.5°	434.7	459.8	518.0	573.6	592.5
60°	391.7	419.5	486.4	544.5	564.7
62.5°	348.8	380.3	456.1	514.2	535.6
65°	305.8	341.1	420.8	482.7	504.1
67.5°	264.1	303.3	387.8	449.8	471.3
70°	216.1	265.3	352.5	413.1	434.7
72.5°	171.9	228.8	318.4	375.3	394.2
75°	132.7	193.3	280.5	332.3	339.8
77.5°	97.3	158.0	241.3	259.1	260.3
80°	65.6	126.4	184.5	181.9	184.5
82.5°	43.0	94.7	116.3	130.2	131.4
85°	25.3	55.6	68.3	75.8	77.0
87.5°	12.7	18.9	24.1	25.3	27.8
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)