

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: P732192

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732192
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-3000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

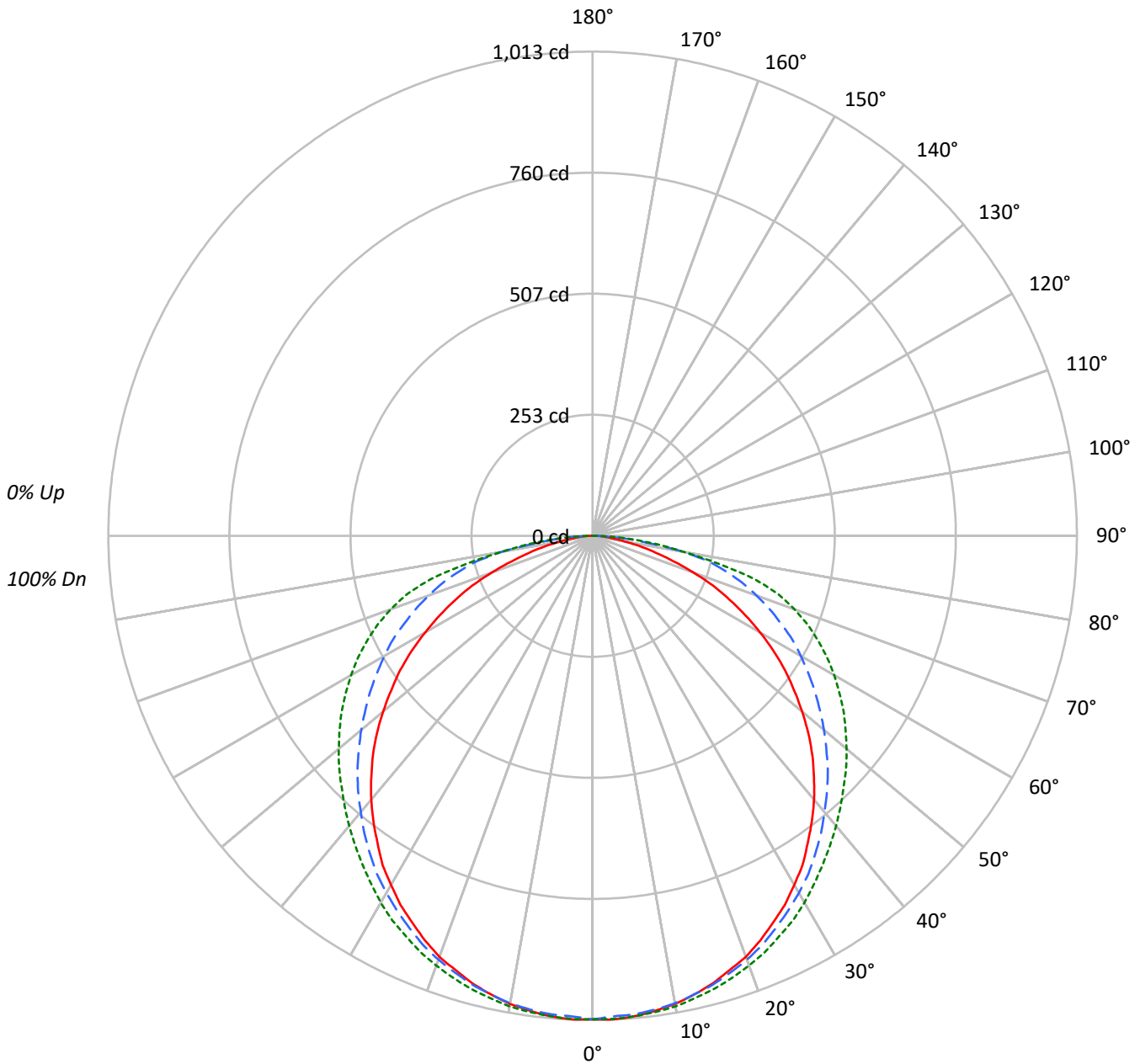
Lumens per Lamp: N/A
Luminaire Lumens: 3118.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): 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: P732192

CATALOG NUMBER: 24CZ2-40-HRP-B2750-W2D-3000K

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°	1428	1428	1428
5°	1430	1424	1430
10°	1426	1424	1433
15°	1417	1421	1434
20°	1408	1417	1437
25°	1390	1411	1439
30°	1374	1406	1444
35°	1352	1399	1446
40°	1327	1390	1460
45°	1298	1389	1482
50°	1255	1387	1522
55°	1211	1397	1577
60°	1142	1418	1647
65°	1055	1452	1739
70°	921	1503	1853
75°	748	1580	1915
80°	551	1549	1549
85°	424	1142	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.1
10°-20°	275.2	8.8
20°-30°	418.9	13.4
30°-40°	508.7	16.3
40°-50°	537.5	17.2
50°-60°	507.1	16.3
60°-70°	421.7	13.5
70°-80°	277.4	8.9
80°-90°	75.6	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°	790.0	25.3
0°-40°	1298.7	41.7
0°-60°	2343.3	75.2
0°-90°	3118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1009	1009	1005	1009	1009	96
15°	970	971	972	982	982	274
25°	893	898	906	922	924	412
35°	784	794	812	833	839	491
45°	650	663	696	730	743	501
55°	492	513	568	621	641	438
65°	316	352	435	499	521	312
75°	137	200	290	343	351	148
85°	26	58	70	78	80	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.7	1011.7	1011.7	1011.7	1011.7
2.5°	1013.0	1011.7	1006.3	1011.7	1011.7
5°	1009.1	1009.1	1005.1	1009.1	1009.1
7.5°	1002.5	1002.5	999.9	1005.1	1005.1
10°	994.7	994.7	993.3	999.9	999.9
12.5°	982.9	984.2	982.9	990.7	990.7
15°	969.9	971.2	972.4	981.7	981.7
17.5°	952.9	955.5	958.1	968.6	969.9
20°	937.3	938.5	943.7	955.5	956.8
22.5°	916.3	920.3	926.8	938.5	942.4
25°	892.9	898.0	905.9	921.6	924.2
27.5°	870.6	874.6	885.0	901.9	907.2
30°	843.3	849.8	862.8	879.8	886.2
32.5°	817.2	823.6	839.3	857.7	862.8
35°	784.5	793.6	812.0	832.8	839.3
37.5°	753.2	762.3	784.5	808.0	815.9
40°	720.5	731.0	754.5	782.0	792.3
42.5°	685.3	699.6	725.8	755.8	767.6
45°	650.1	663.2	695.8	729.7	742.7
47.5°	612.1	627.8	663.2	703.5	719.2
50°	571.8	591.3	631.8	676.2	693.2
52.5°	531.3	553.4	599.1	648.8	667.0
55°	492.0	513.0	567.7	621.3	640.9
57.5°	449.1	475.1	535.1	592.6	612.1
60°	404.7	433.4	502.5	562.6	583.4
62.5°	360.3	392.9	471.2	531.3	553.4
65°	315.9	352.4	434.7	498.7	520.8
67.5°	272.8	313.3	400.7	464.8	486.9
70°	223.3	274.1	364.2	426.8	449.1
72.5°	177.6	236.3	329.0	387.8	407.3
75°	137.1	199.7	289.8	343.4	351.1
77.5°	100.6	163.2	249.2	267.6	268.9
80°	67.8	130.6	190.6	187.9	190.6
82.5°	44.4	97.8	120.1	134.5	135.8
85°	26.2	57.5	70.5	78.3	79.6
87.5°	13.1	19.5	24.9	26.2	28.7
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)