

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: P732216

Luminaire Tested: **24CZ2-40HE-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732216  
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-2700K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

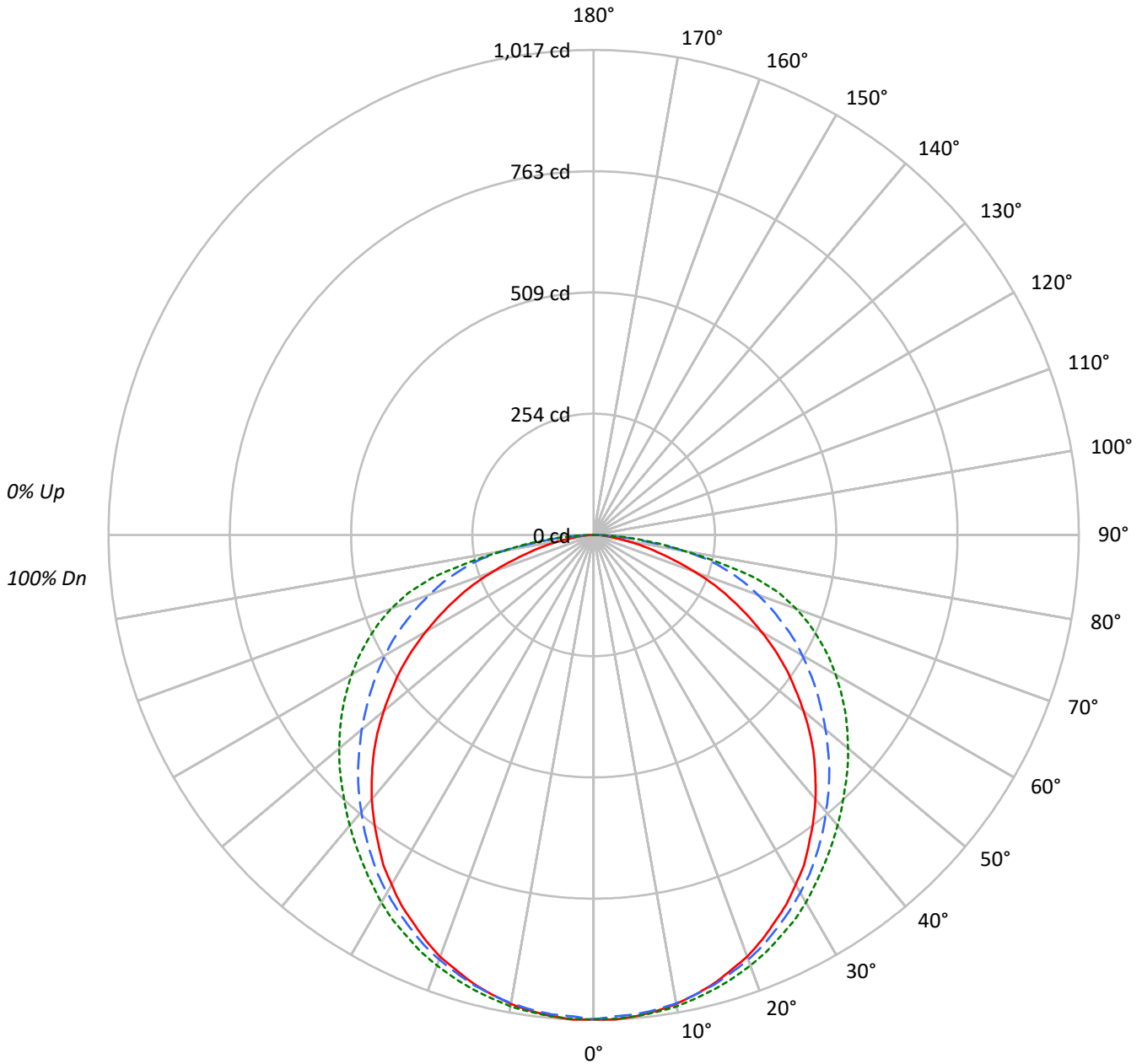
Lumens per Lamp: N/A  
Luminaire Lumens: 3131.0 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1434	1434	1434
5°	1436	1430	1436
10°	1432	1429	1439
15°	1423	1427	1440
20°	1414	1423	1443
25°	1396	1417	1445
30°	1380	1412	1450
35°	1357	1405	1452
40°	1333	1396	1466
45°	1303	1395	1489
50°	1261	1393	1528
55°	1216	1403	1583
60°	1147	1424	1654
65°	1059	1458	1746
70°	925	1509	1861
75°	750	1587	1923
80°	553	1556	1556
85°	426	1146	1294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	3.1
10°-20°	276.3	8.8
20°-30°	420.7	13.4
30°-40°	510.8	16.3
40°-50°	539.7	17.2
50°-60°	509.2	16.3
60°-70°	423.4	13.5
70°-80°	278.6	8.9
80°-90°	75.9	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°	793.3	25.3
0°-40°	1304.1	41.7
0°-60°	2353.0	75.2
0°-90°	3131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3131.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1013	1013	1009	1013	1013	96
15°	974	975	976	986	986	275
25°	897	902	910	925	928	414
35°	788	797	815	836	843	493
45°	653	666	699	733	746	503
55°	494	515	570	624	644	440
65°	317	354	436	501	523	314
75°	138	200	291	345	353	148
85°	26	58	71	79	80	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1017.2	1015.9	1010.5	1015.9	1015.9
5°	1013.3	1013.3	1009.2	1013.3	1013.3
7.5°	1006.7	1006.7	1004.1	1009.2	1009.2
10°	998.9	998.9	997.4	1004.1	1004.1
12.5°	987.0	988.3	987.0	994.8	994.8
15°	973.9	975.2	976.5	985.7	985.7
17.5°	956.9	959.5	962.1	972.6	973.9
20°	941.2	942.5	947.6	959.5	960.8
22.5°	920.1	924.1	930.6	942.5	946.4
25°	896.6	901.8	909.7	925.4	928.0
27.5°	874.2	878.3	888.6	905.7	911.0
30°	846.8	853.3	866.4	883.5	889.9
32.5°	820.6	827.0	842.8	861.2	866.4
35°	787.8	796.9	815.4	836.3	842.8
37.5°	756.4	765.4	787.8	811.3	819.3
40°	723.5	734.0	757.7	785.2	795.6
42.5°	688.1	702.6	728.8	759.0	770.8
45°	652.8	665.9	698.7	732.7	745.8
47.5°	614.7	630.4	665.9	706.4	722.2
50°	574.2	593.8	634.5	679.0	696.1
52.5°	533.5	555.7	601.6	651.5	669.8
55°	494.1	515.2	570.1	623.9	643.5
57.5°	451.0	477.1	537.4	595.1	614.7
60°	406.4	435.2	504.6	564.9	585.8
62.5°	361.8	394.6	473.2	533.5	555.7
65°	317.2	353.9	436.5	500.7	522.9
67.5°	274.0	314.6	402.3	466.7	488.9
70°	224.2	275.2	365.7	428.6	451.0
72.5°	178.3	237.3	330.4	389.4	409.0
75°	137.6	200.5	291.0	344.8	352.6
77.5°	101.0	163.9	250.3	268.8	270.1
80°	68.1	131.1	191.4	188.7	191.4
82.5°	44.6	98.2	120.6	135.0	136.3
85°	26.3	57.7	70.8	78.6	79.9
87.5°	13.1	19.6	25.0	26.3	28.9
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)