

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: P732184

Luminaire Tested: **24CZ2-35HE-SQR-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35HE-SQR-B2750-W2D-4000K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

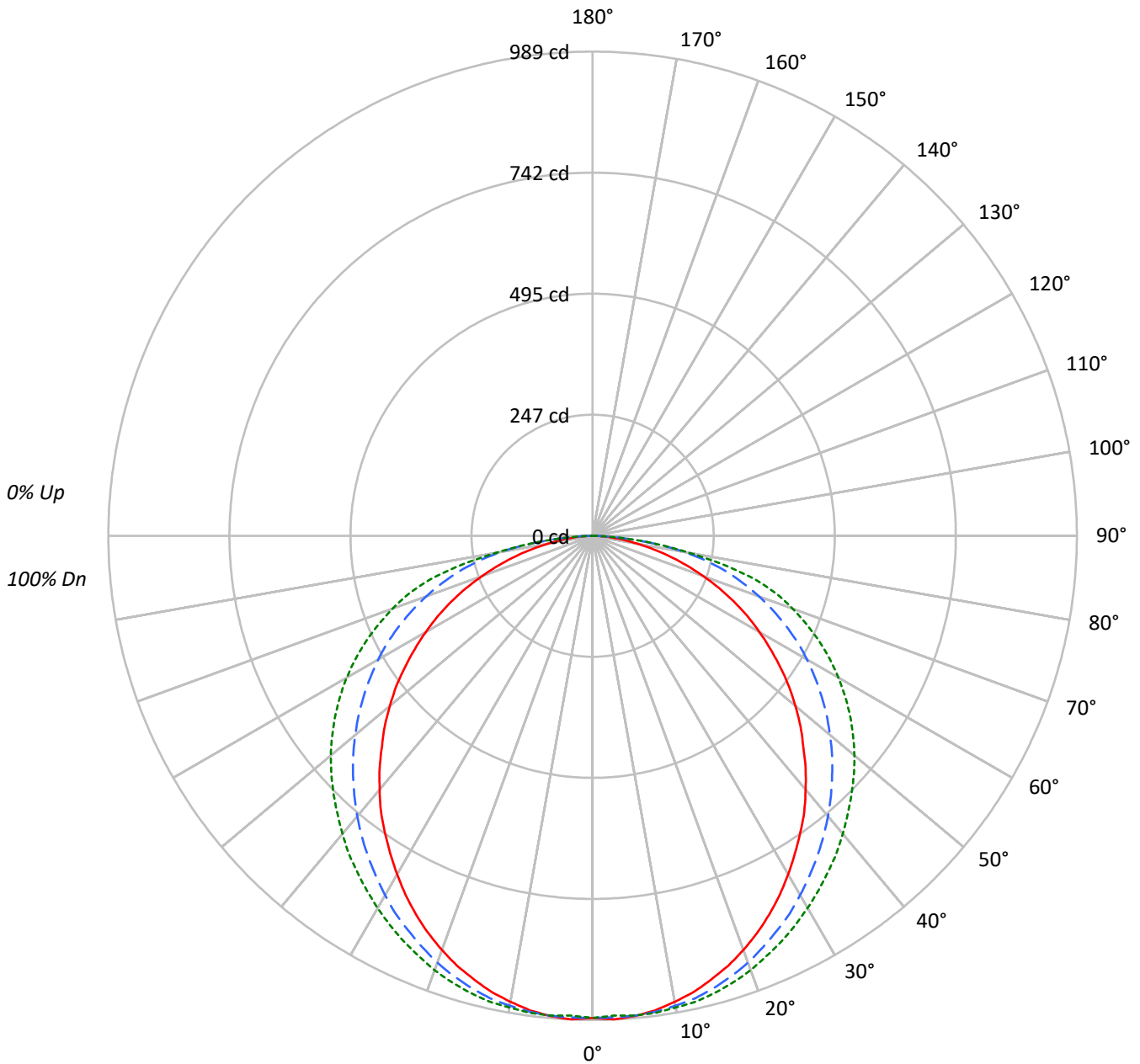
Lumens per Lamp: N/A  
Luminaire Lumens: 3081.0 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
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	100	96	92	96	93	89	92	89	87	89	86	84	82			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22			

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

	0°	45°	90°
0°	1390	1390	1390
5°	1395	1394	1394
10°	1385	1397	1403
15°	1371	1397	1412
20°	1352	1394	1418
25°	1329	1386	1423
30°	1301	1381	1431
35°	1274	1378	1444
40°	1247	1378	1464
45°	1214	1381	1493
50°	1186	1389	1533
55°	1152	1405	1579
60°	1112	1427	1637
65°	1063	1454	1706
70°	987	1490	1793
75°	893	1542	1875
80°	753	1547	1612
85°	576	1169	1169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.5	3.0
10°-20°	269.0	8.7
20°-30°	408.5	13.3
30°-40°	496.9	16.1
40°-50°	529.1	17.2
50°-60°	503.9	16.4
60°-70°	421.4	13.7
70°-80°	281.0	9.1
80°-90°	77.7	2.5
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°	771.0	25.0
0°-40°	1267.9	41.2
0°-60°	2300.9	74.7
0°-90°	3081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	985	979	984	984	984	93
15°	938	940	956	964	966	265
25°	854	865	890	906	914	393
35°	740	761	800	826	838	463
45°	608	641	692	730	748	470
55°	468	509	571	621	642	418
65°	318	365	435	489	511	315
75°	164	216	283	331	344	174
85°	36	66	72	71	72	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	984.8	984.8	984.8	984.8	984.8
2.5°	988.9	981.7	984.8	984.8	980.8
5°	984.8	978.7	983.9	983.9	983.9
7.5°	977.8	972.6	980.8	982.8	982.8
10°	966.5	964.6	974.7	977.8	978.7
12.5°	954.4	953.3	967.6	971.6	974.7
15°	938.0	940.1	956.4	963.5	966.5
17.5°	920.8	924.8	943.1	953.3	956.4
20°	900.4	906.5	927.9	938.0	944.2
22.5°	878.1	887.2	909.5	921.7	928.9
25°	853.6	864.7	890.2	905.5	913.6
27.5°	827.2	841.5	870.9	888.1	896.3
30°	798.6	814.9	847.5	867.9	878.1
32.5°	769.1	788.4	824.1	846.5	858.6
35°	739.6	761.1	799.7	826.1	838.3
37.5°	710.2	731.4	774.3	802.7	818.1
40°	676.6	702.0	747.8	779.3	794.6
42.5°	644.0	671.4	720.3	754.9	771.2
45°	608.3	641.0	691.8	730.5	747.8
47.5°	575.8	608.3	663.4	704.1	723.4
50°	540.3	574.8	632.8	677.6	698.0
52.5°	505.6	541.3	602.3	650.1	670.5
55°	468.1	508.7	570.8	620.6	641.9
57.5°	430.4	474.1	538.1	590.1	611.5
60°	393.8	438.4	505.6	557.6	579.9
62.5°	357.1	401.8	472.0	524.9	546.3
65°	318.4	365.2	435.4	489.4	510.8
67.5°	279.8	328.6	398.8	452.7	473.1
70°	239.1	291.0	361.2	414.1	434.5
72.5°	201.5	253.3	322.5	374.5	393.8
75°	163.8	215.7	282.8	330.7	343.9
77.5°	127.2	179.0	239.1	270.7	273.7
80°	92.6	141.5	190.3	199.4	198.3
82.5°	62.0	105.8	131.3	132.2	135.3
85°	35.6	66.1	72.2	71.3	72.2
87.5°	14.3	23.4	20.4	15.2	15.2
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)