

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: P732231

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732231  
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: 24CZ2-40HE-SQR-B2750-W2D-2700K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

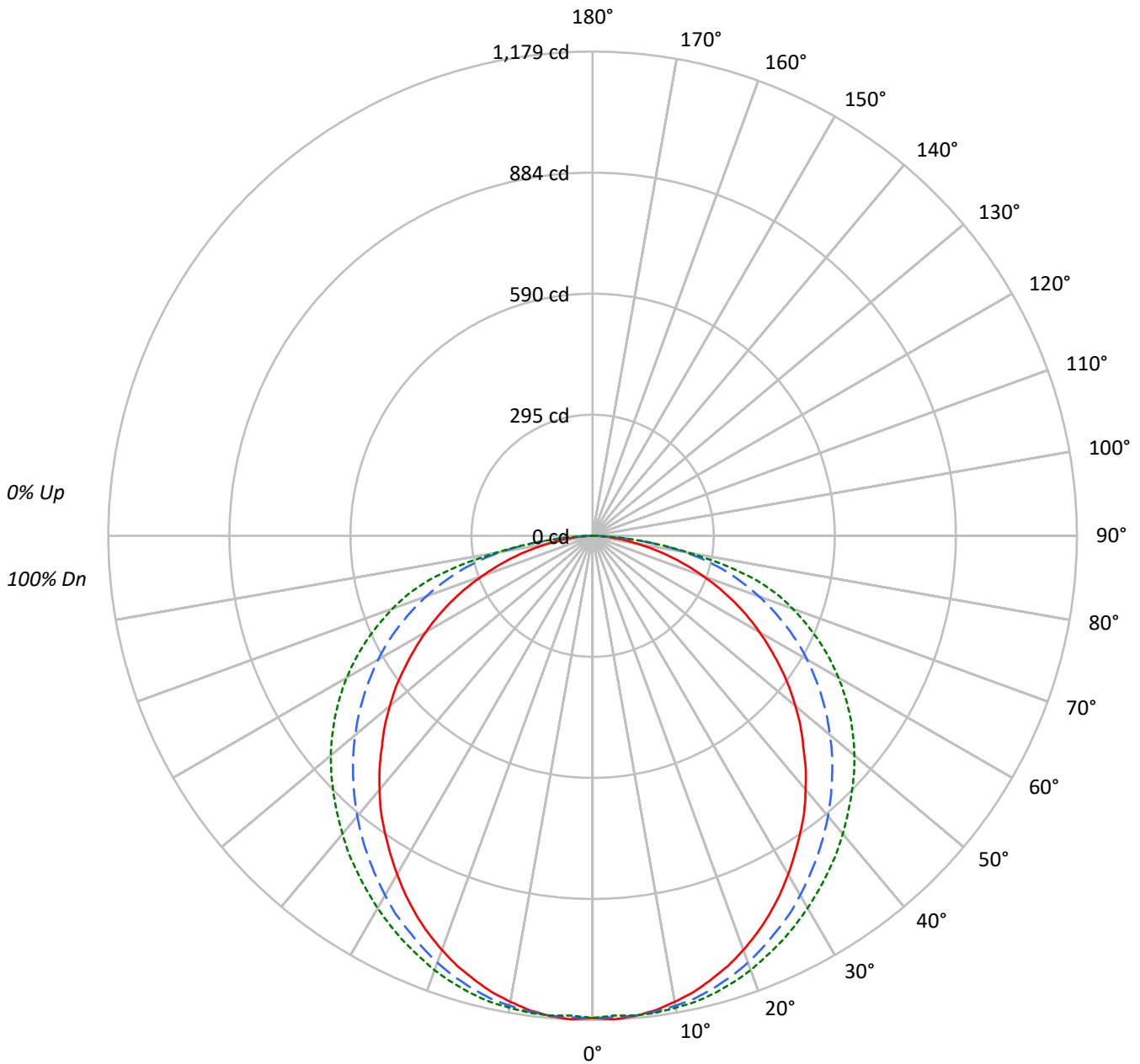
Lumens per Lamp: N/A  
Luminaire Lumens: 3673.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1657	1657	1657
5°	1663	1662	1662
10°	1651	1665	1672
15°	1634	1666	1684
20°	1612	1661	1691
25°	1585	1653	1696
30°	1552	1647	1706
35°	1519	1642	1722
40°	1486	1642	1745
45°	1447	1646	1779
50°	1414	1656	1827
55°	1373	1674	1883
60°	1325	1702	1952
65°	1268	1734	2033
70°	1176	1777	2138
75°	1065	1839	2236
80°	896	1843	1921
85°	687	1394	1394



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	3.0
10°-20°	320.6	8.7
20°-30°	487.0	13.3
30°-40°	592.4	16.1
40°-50°	630.7	17.2
50°-60°	600.7	16.4
60°-70°	502.4	13.7
70°-80°	335.0	9.1
80°-90°	92.7	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°	919.1	25.0
0°-40°	1511.5	41.2
0°-60°	2743.0	74.7
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1174	1167	1173	1173	1173	111
15°	1118	1121	1140	1149	1152	315
25°	1018	1031	1061	1079	1089	469
35°	882	907	953	985	999	552
45°	725	764	825	871	892	561
55°	558	606	680	740	765	499
65°	380	435	519	583	609	375
75°	195	257	337	394	410	207
85°	42	79	86	85	86	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1178.9	1170.4	1174.0	1174.0	1169.3
5°	1174.0	1166.8	1172.9	1172.9	1172.9
7.5°	1165.7	1159.5	1169.3	1171.6	1171.6
10°	1152.3	1149.9	1162.0	1165.7	1166.8
12.5°	1137.8	1136.5	1153.5	1158.2	1162.0
15°	1118.2	1120.7	1140.1	1148.6	1152.3
17.5°	1097.7	1102.4	1124.4	1136.5	1140.1
20°	1073.4	1080.7	1106.2	1118.2	1125.6
22.5°	1046.8	1057.7	1084.3	1098.8	1107.3
25°	1017.6	1030.9	1061.3	1079.4	1089.2
27.5°	986.1	1003.1	1038.3	1058.8	1068.6
30°	952.1	971.5	1010.4	1034.7	1046.8
32.5°	916.9	939.9	982.5	1009.1	1023.6
35°	881.8	907.3	953.3	984.9	999.4
37.5°	846.6	872.0	923.1	957.0	975.2
40°	806.6	836.8	891.5	929.1	947.3
42.5°	767.8	800.4	858.8	899.9	919.4
45°	725.2	764.2	824.7	870.9	891.5
47.5°	686.5	725.2	790.8	839.4	862.4
50°	644.1	685.2	754.4	807.8	832.1
52.5°	602.8	645.3	718.0	775.1	799.3
55°	558.0	606.4	680.5	739.9	765.3
57.5°	513.1	565.3	641.5	703.5	729.0
60°	469.4	522.7	602.8	664.7	691.4
62.5°	425.8	479.0	562.7	625.8	651.3
65°	379.6	435.4	519.1	583.4	608.9
67.5°	333.5	391.7	475.4	539.7	564.0
70°	285.0	346.9	430.6	493.7	518.0
72.5°	240.2	302.0	384.5	446.4	469.4
75°	195.3	257.1	337.2	394.2	410.0
77.5°	151.6	213.4	285.0	322.7	326.3
80°	110.3	168.7	226.8	237.7	236.4
82.5°	73.9	126.1	156.5	157.6	161.3
85°	42.4	78.8	86.1	85.0	86.1
87.5°	17.0	27.9	24.3	18.1	18.1
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)