

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: P732347

Luminaire Tested: **24CZ2-55HE-RDP-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55HE-RDP-B2750-W2D-3000K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

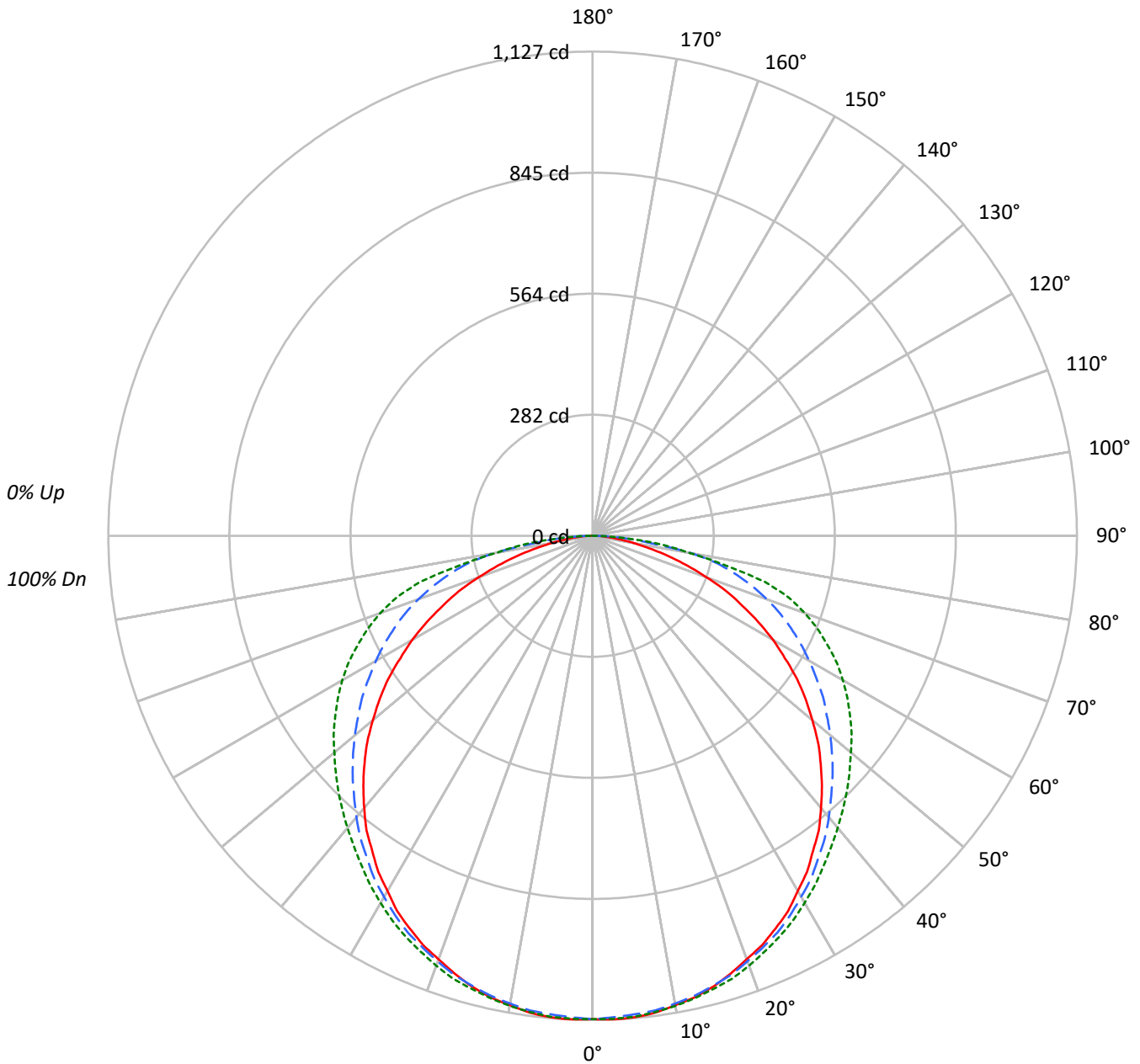
Lumens per Lamp: N/A  
Luminaire Lumens: 3578.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
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: P732347

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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	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

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

	0°	45°	90°
0°	1588	1588	1588
5°	1594	1584	1592
10°	1589	1585	1592
15°	1587	1584	1595
20°	1575	1583	1599
25°	1570	1586	1603
30°	1556	1582	1608
35°	1541	1578	1615
40°	1524	1576	1635
45°	1498	1577	1672
50°	1465	1586	1722
55°	1428	1611	1799
60°	1368	1643	1899
65°	1280	1701	2015
70°	1165	1779	2168
75°	987	1877	2265
80°	779	1889	1831
85°	575	1438	1608



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	3.0
10°-20°	307.2	8.6
20°-30°	469.7	13.1
30°-40°	574.2	16.0
40°-50°	612.0	17.1
50°-60°	585.2	16.4
60°-70°	495.7	13.9
70°-80°	333.2	9.3
80°-90°	94.0	2.6
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°	883.7	24.7
0°-40°	1457.9	40.7
0°-60°	2655.1	74.2
0°-90°	3578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1125	1124	1118	1124	1124	107
15°	1086	1086	1084	1093	1091	306
25°	1008	1012	1019	1028	1029	465
35°	894	902	916	933	937	560
45°	751	763	790	824	838	579
55°	580	602	655	706	731	517
65°	383	422	509	577	604	381
75°	181	247	344	403	415	194
85°	36	73	89	96	99	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	1126.9	1126.9	1121.6	1125.2	1125.2
5°	1125.2	1123.5	1118.1	1123.5	1123.5
7.5°	1119.8	1118.1	1114.5	1119.8	1118.1
10°	1109.1	1109.1	1105.7	1111.1	1111.1
12.5°	1100.4	1098.7	1096.7	1103.8	1102.1
15°	1086.2	1086.2	1084.3	1093.3	1091.4
17.5°	1068.5	1070.2	1071.9	1079.0	1080.9
20°	1048.8	1052.4	1054.1	1064.8	1064.8
22.5°	1031.0	1033.0	1036.4	1047.1	1047.1
25°	1008.1	1011.6	1018.6	1027.6	1029.3
27.5°	985.0	986.7	995.7	1008.1	1009.8
30°	954.8	960.2	970.7	985.0	986.7
32.5°	928.1	933.4	945.9	960.2	963.6
35°	894.5	901.6	915.7	933.4	937.1
37.5°	864.3	869.7	887.4	906.9	912.3
40°	827.1	837.6	855.3	878.5	887.4
42.5°	789.9	800.3	821.7	851.9	862.6
45°	750.7	763.1	789.9	823.5	837.6
47.5°	711.7	725.9	756.0	795.0	811.0
50°	667.2	685.0	722.2	766.7	784.5
52.5°	624.7	646.1	686.9	736.6	759.7
55°	580.4	601.5	654.8	706.4	731.2
57.5°	530.7	559.0	617.6	676.2	702.8
60°	484.5	511.0	582.1	646.1	672.6
62.5°	434.8	470.4	546.5	614.0	640.7
65°	383.3	422.4	509.3	576.7	603.5
67.5°	337.3	379.8	472.1	539.5	566.2
70°	282.3	335.3	431.2	498.6	525.4
72.5°	230.7	289.3	388.6	454.3	479.1
75°	181.0	246.7	344.3	403.0	415.4
77.5°	134.8	204.2	298.1	322.9	314.1
80°	95.9	163.3	232.4	220.0	225.3
82.5°	62.1	124.3	143.8	163.3	168.6
85°	35.5	72.8	88.8	95.9	99.3
87.5°	16.0	26.5	35.5	35.5	33.8
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)