

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: P732355

Luminaire Tested: **24CZ2-55HE-S-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55HE-S-B2750-W2D-5000K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

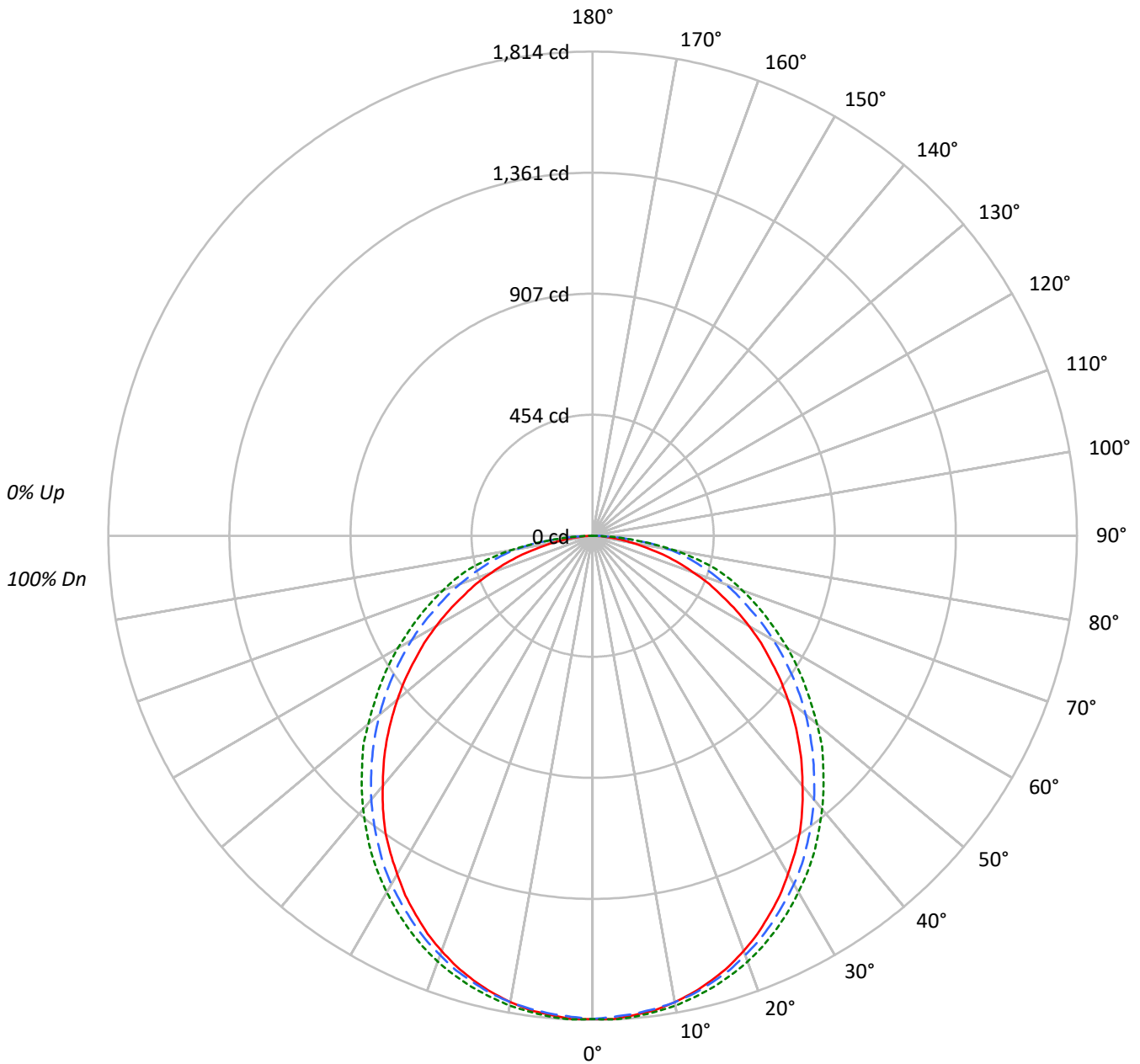
Lumens per Lamp: N/A  
Luminaire Lumens: 5154.0 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
Input Voltage (V): NR  
Input Current (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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24			

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

	0°	45°	90°
0°	2556	2556	2556
5°	2554	2547	2563
10°	2543	2543	2562
15°	2519	2531	2557
20°	2486	2510	2550
25°	2440	2486	2534
30°	2385	2457	2513
35°	2333	2417	2493
40°	2253	2377	2464
45°	2180	2330	2438
50°	2096	2286	2408
55°	2002	2244	2385
60°	1909	2209	2380
65°	1788	2170	2394
70°	1655	2182	2459
75°	1482	2223	2597
80°	1197	2355	2541
85°	900	2066	2016



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	3.3
10°-20°	489.8	9.5
20°-30°	736.3	14.3
30°-40°	877.0	17.0
40°-50°	897.6	17.4
50°-60°	808.1	15.7
60°-70°	634.6	12.3
70°-80°	411.9	8.0
80°-90°	127.4	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°	1397.5	27.1
0°-40°	2274.5	44.1
0°-60°	3980.2	77.2
0°-90°	5154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5154.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1802	1806	1798	1807	1809	171
15°	1724	1729	1732	1747	1750	486
25°	1567	1580	1596	1622	1627	722
35°	1354	1370	1403	1437	1447	845
45°	1092	1118	1167	1212	1221	842
55°	814	850	912	959	969	729
65°	535	576	650	704	717	533
75°	272	324	408	463	476	288
85°	56	103	128	124	124	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1810.7	1810.7	1810.7	1810.7	1810.7
2.5°	1812.3	1812.3	1804.0	1812.3	1813.9
5°	1802.4	1805.8	1797.5	1807.4	1808.9
7.5°	1792.6	1792.6	1787.6	1797.5	1799.3
10°	1774.6	1776.2	1774.6	1786.1	1787.6
12.5°	1751.7	1754.9	1756.7	1768.1	1769.7
15°	1723.9	1728.9	1732.0	1746.8	1750.2
17.5°	1692.8	1697.7	1705.8	1722.2	1725.5
20°	1655.1	1661.6	1671.5	1692.8	1697.7
22.5°	1614.3	1620.8	1637.1	1656.7	1665.0
25°	1566.7	1579.7	1596.1	1622.3	1627.3
27.5°	1519.2	1530.6	1551.9	1579.7	1586.4
30°	1463.6	1481.5	1507.7	1535.6	1542.1
32.5°	1409.5	1427.5	1458.6	1488.2	1496.3
35°	1353.9	1370.3	1403.0	1437.3	1447.2
37.5°	1290.0	1311.3	1347.4	1381.7	1391.6
40°	1222.9	1249.2	1290.0	1326.1	1337.5
42.5°	1159.0	1186.8	1227.9	1267.1	1280.1
45°	1092.0	1118.2	1167.3	1211.5	1221.3
47.5°	1023.1	1052.7	1105.0	1149.2	1165.5
50°	954.5	985.6	1041.3	1087.0	1096.9
52.5°	885.6	918.4	977.4	1026.5	1031.4
55°	813.6	849.7	911.9	959.4	969.3
57.5°	748.2	779.3	846.4	895.5	906.9
60°	676.2	710.5	782.5	828.4	843.0
62.5°	607.3	643.4	718.8	764.5	777.5
65°	535.3	576.4	649.9	704.0	717.0
67.5°	473.2	512.4	590.9	643.4	656.4
70°	401.0	445.4	528.8	582.9	595.9
72.5°	338.9	384.6	468.3	520.5	540.3
75°	271.8	324.1	407.7	463.3	476.3
77.5°	206.3	266.9	351.9	394.5	394.5
80°	147.3	211.3	289.8	309.5	312.6
82.5°	96.7	158.8	214.4	212.8	212.8
85°	55.6	103.2	127.6	124.5	124.5
87.5°	21.3	42.6	45.8	45.8	44.2
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)