

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: P732343

Luminaire Tested: **24CZ2-55HE-HRP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732343  
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: 24CZ2-55HE-HRP-B2750-W2D-3500K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

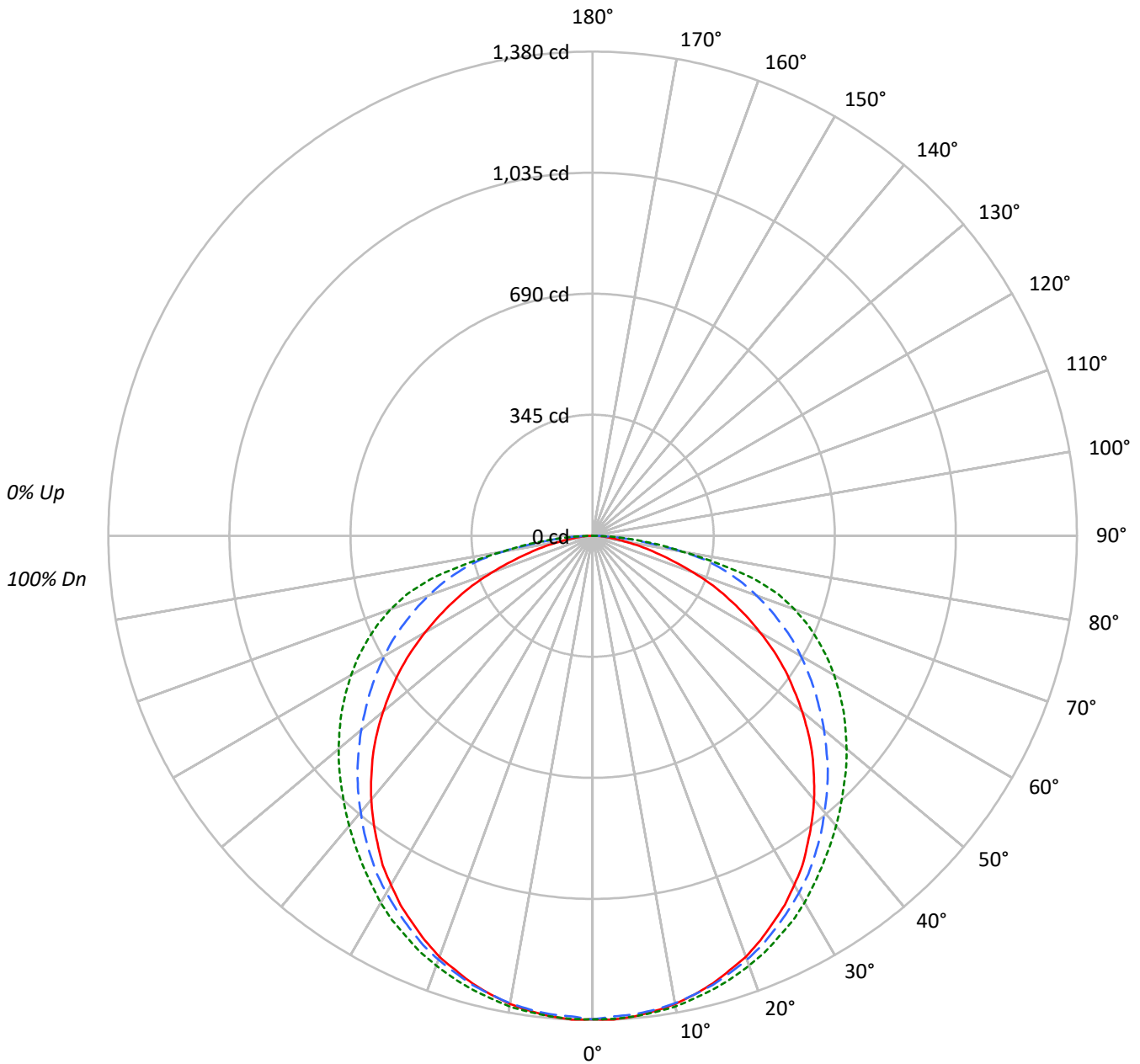
Lumens per Lamp: N/A  
Luminaire Lumens: 4248.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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									
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°	1945	1945	1945
5°	1948	1940	1948
10°	1942	1939	1952
15°	1931	1936	1954
20°	1918	1931	1958
25°	1894	1922	1961
30°	1872	1916	1968
35°	1842	1906	1970
40°	1808	1894	1989
45°	1768	1892	2020
50°	1710	1890	2074
55°	1650	1903	2148
60°	1556	1933	2243
65°	1437	1978	2369
70°	1255	2048	2525
75°	1018	2153	2609
80°	751	2111	2111
85°	576	1556	1755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	3.1
10°-20°	374.9	8.8
20°-30°	570.8	13.4
30°-40°	693.1	16.3
40°-50°	732.2	17.2
50°-60°	690.9	16.3
60°-70°	574.5	13.5
70°-80°	378.0	8.9
80°-90°	103.0	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°	1076.3	25.3
0°-40°	1769.3	41.7
0°-60°	3192.5	75.2
0°-90°	4248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1375	1375	1369	1375	1375	131
15°	1321	1323	1325	1337	1337	373
25°	1216	1224	1234	1256	1259	561
35°	1069	1081	1106	1135	1143	669
45°	886	904	948	994	1012	682
55°	670	699	774	846	873	597
65°	430	480	592	679	710	425
75°	187	272	395	468	478	201
85°	36	78	96	107	108	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1378.3	1378.3	1378.3	1378.3	1378.3
2.5°	1380.1	1378.3	1371.1	1378.3	1378.3
5°	1374.8	1374.8	1369.3	1374.8	1374.8
7.5°	1365.8	1365.8	1362.3	1369.3	1369.3
10°	1355.2	1355.2	1353.2	1362.3	1362.3
12.5°	1339.2	1340.9	1339.2	1349.7	1349.7
15°	1321.4	1323.1	1324.9	1337.4	1337.4
17.5°	1298.3	1301.8	1305.3	1319.6	1321.4
20°	1276.9	1278.7	1285.7	1301.8	1303.5
22.5°	1248.3	1253.8	1262.6	1278.7	1284.0
25°	1216.4	1223.5	1234.3	1255.6	1259.1
27.5°	1186.1	1191.6	1205.7	1228.8	1236.0
30°	1148.9	1157.7	1175.5	1198.6	1207.4
32.5°	1113.3	1122.1	1143.4	1168.5	1175.5
35°	1068.9	1081.2	1106.3	1134.6	1143.4
37.5°	1026.2	1038.5	1068.9	1100.8	1111.5
40°	981.6	995.9	1028.0	1065.4	1079.4
42.5°	933.6	953.2	988.8	1029.7	1045.8
45°	885.7	903.5	947.9	994.1	1011.9
47.5°	834.0	855.3	903.5	958.5	979.8
50°	779.0	805.6	860.8	921.3	944.4
52.5°	723.8	753.9	816.2	883.9	908.8
55°	670.4	698.9	773.5	846.5	873.1
57.5°	611.9	647.3	729.1	807.4	834.0
60°	551.4	590.5	684.7	766.5	794.8
62.5°	490.9	535.3	642.0	723.8	753.9
65°	430.4	480.1	592.3	679.4	709.5
67.5°	371.7	426.9	545.9	633.2	663.3
70°	304.2	373.4	496.2	581.5	611.9
72.5°	241.9	322.0	448.2	528.3	554.9
75°	186.7	272.1	394.8	467.8	478.4
77.5°	137.0	222.4	339.6	364.6	366.4
80°	92.4	177.9	259.7	256.0	259.7
82.5°	60.5	133.3	163.6	183.2	185.0
85°	35.6	78.3	96.1	106.7	108.4
87.5°	17.8	26.6	33.9	35.6	39.1
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)