

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: P732345

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732345  
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-5000K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

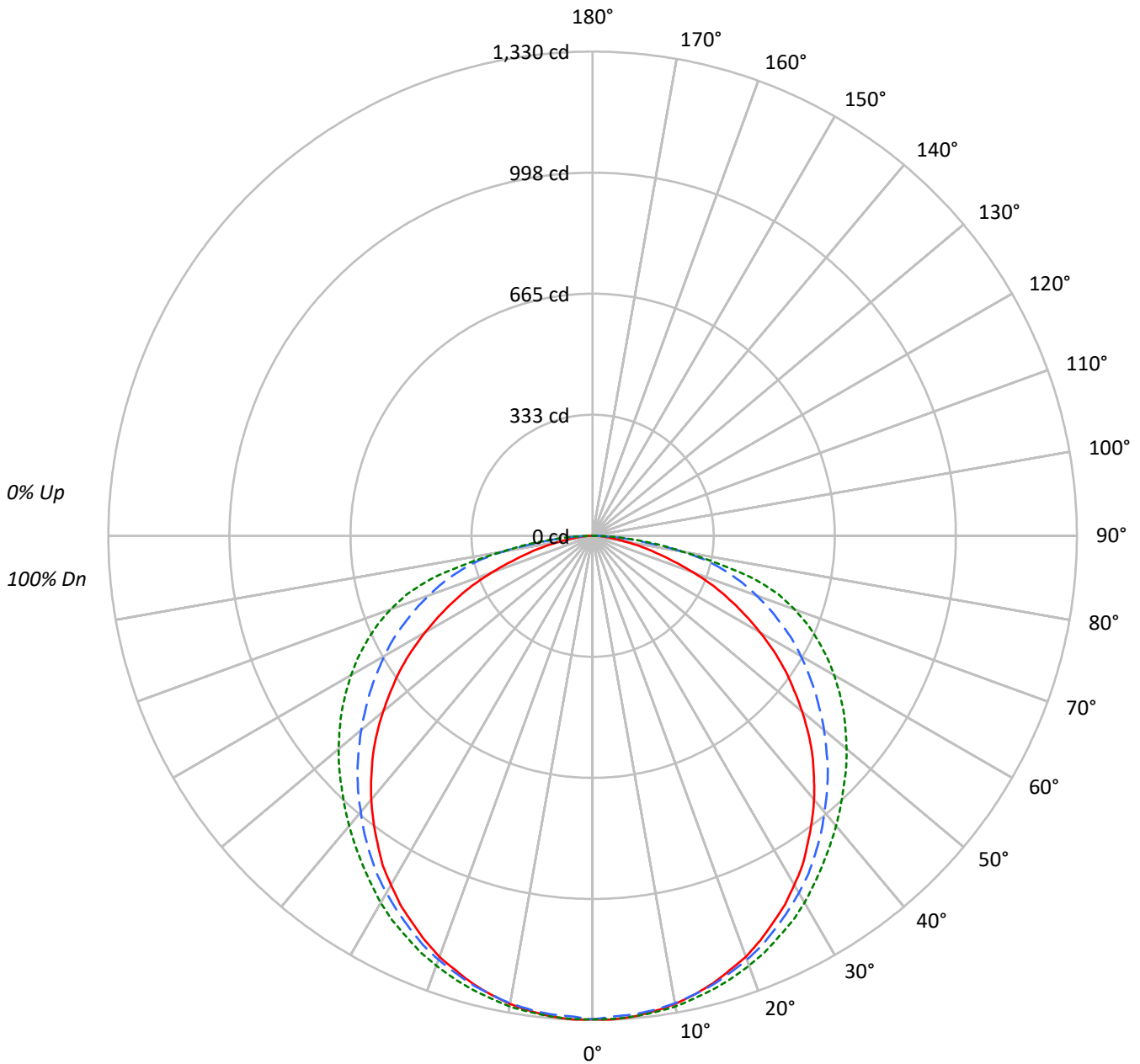
Lumens per Lamp: N/A  
Luminaire Lumens: 4094.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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				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	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°	1875	1875	1875
5°	1877	1870	1877
10°	1872	1869	1882
15°	1861	1866	1883
20°	1848	1861	1887
25°	1826	1852	1890
30°	1805	1846	1896
35°	1775	1837	1899
40°	1743	1825	1917
45°	1704	1823	1946
50°	1648	1822	1998
55°	1590	1834	2071
60°	1500	1862	2162
65°	1385	1906	2284
70°	1209	1973	2433
75°	982	2075	2514
80°	723	2034	2034
85°	555	1500	1692



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	3.1
10°-20°	361.3	8.8
20°-30°	550.1	13.4
30°-40°	667.9	16.3
40°-50°	705.7	17.2
50°-60°	665.9	16.3
60°-70°	553.7	13.5
70°-80°	364.3	8.9
80°-90°	99.3	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°	1037.3	25.3
0°-40°	1705.2	41.7
0°-60°	3076.8	75.2
0°-90°	4094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1325	1325	1320	1325	1325	126
15°	1274	1275	1277	1289	1289	359
25°	1172	1179	1190	1210	1214	541
35°	1030	1042	1066	1094	1102	645
45°	854	871	914	958	975	657
55°	646	674	746	816	842	576
65°	415	463	571	655	684	410
75°	180	262	380	451	461	194
85°	34	76	93	103	104	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1328.4	1328.4	1328.4	1328.4	1328.4
2.5°	1330.0	1328.4	1321.4	1328.4	1328.4
5°	1325.0	1325.0	1319.7	1325.0	1325.0
7.5°	1316.3	1316.3	1312.9	1319.7	1319.7
10°	1306.1	1306.1	1304.2	1312.9	1312.9
12.5°	1290.6	1292.3	1290.6	1300.8	1300.8
15°	1273.5	1275.2	1276.8	1288.9	1288.9
17.5°	1251.2	1254.6	1258.0	1271.8	1273.5
20°	1230.6	1232.3	1239.1	1254.6	1256.3
22.5°	1203.1	1208.4	1216.9	1232.3	1237.4
25°	1172.4	1179.1	1189.5	1210.1	1213.5
27.5°	1143.1	1148.4	1162.0	1184.2	1191.2
30°	1107.3	1115.8	1132.9	1155.2	1163.7
32.5°	1072.9	1081.4	1102.0	1126.1	1132.9
35°	1030.1	1042.0	1066.2	1093.5	1102.0
37.5°	989.0	1000.9	1030.1	1060.9	1071.2
40°	946.0	959.8	990.7	1026.7	1040.3
42.5°	899.8	918.6	953.0	992.4	1007.9
45°	853.6	870.7	913.5	958.1	975.2
47.5°	803.8	824.3	870.7	923.7	944.3
50°	750.8	776.4	829.6	887.9	910.2
52.5°	697.6	726.6	786.6	851.9	875.8
55°	646.1	673.6	745.5	815.8	841.5
57.5°	589.7	623.8	702.6	778.1	803.8
60°	531.4	569.1	659.8	738.7	766.0
62.5°	473.1	515.9	618.7	697.6	726.6
65°	414.8	462.7	570.8	654.7	683.8
67.5°	358.2	411.4	526.1	610.2	639.3
70°	293.1	359.9	478.2	560.4	589.7
72.5°	233.2	310.3	432.0	509.1	534.8
75°	180.0	262.2	380.5	450.8	461.0
77.5°	132.1	214.3	327.3	351.4	353.1
80°	89.0	171.5	250.3	246.7	250.3
82.5°	58.3	128.4	157.7	176.6	178.3
85°	34.3	75.5	92.6	102.8	104.5
87.5°	17.2	25.6	32.6	34.3	37.7
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)