

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: P843131

Luminaire Tested: **24CZ2-55HE-HRP-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843131  
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-UNV-B40  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

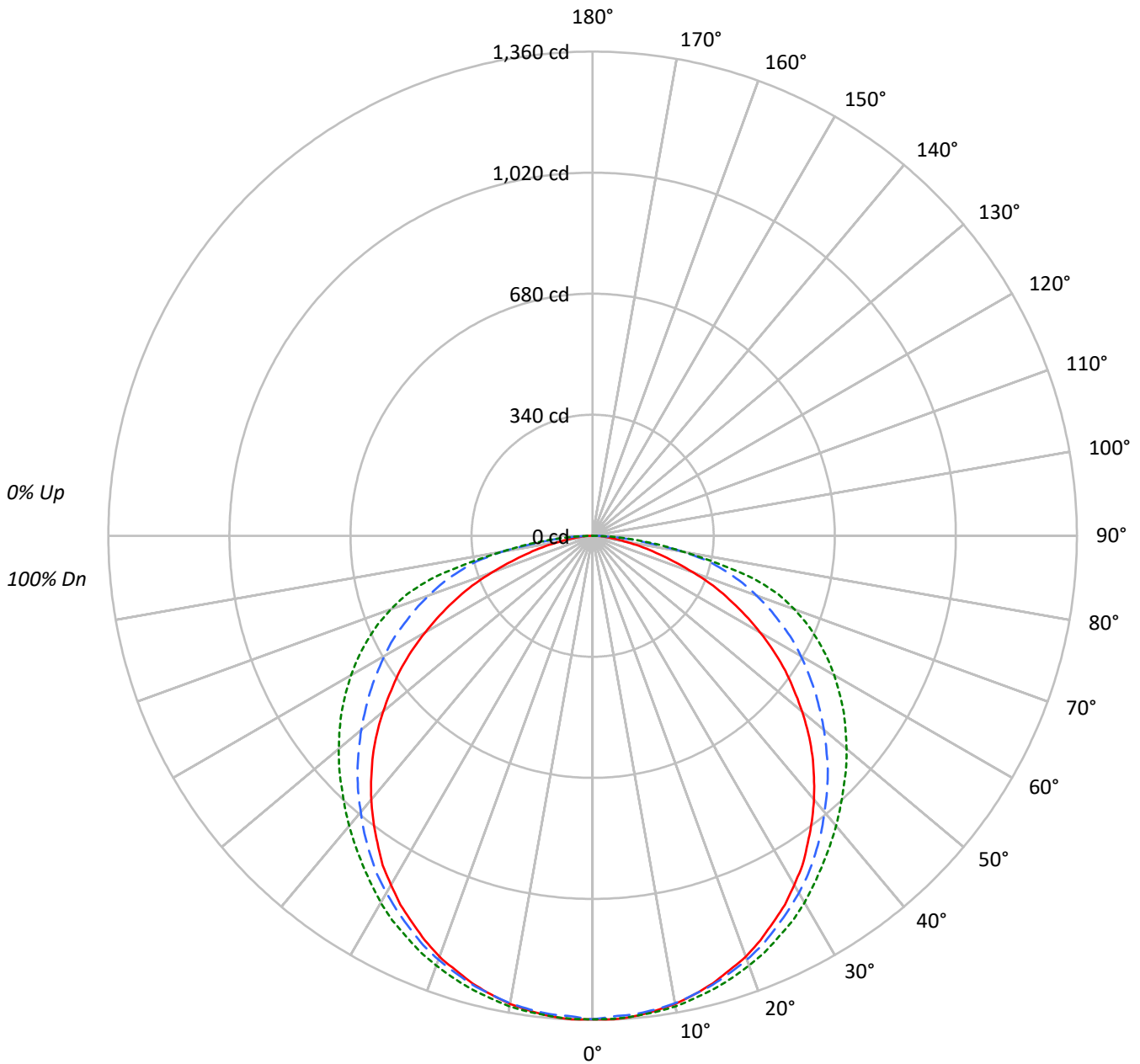
Lumens per Lamp: N/A  
Luminaire Lumens: 4186.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
Input Voltage (V): NR  
Input Current (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

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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°	1917	1917	1917
5°	1919	1912	1919
10°	1914	1911	1924
15°	1903	1908	1926
20°	1890	1903	1929
25°	1867	1894	1932
30°	1845	1888	1939
35°	1815	1878	1941
40°	1782	1866	1960
45°	1742	1864	1990
50°	1685	1863	2043
55°	1625	1875	2117
60°	1534	1904	2211
65°	1416	1949	2335
70°	1237	2017	2488
75°	1003	2121	2571
80°	740	2080	2080
85°	568	1534	1729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	3.1
10°-20°	369.5	8.8
20°-30°	562.4	13.4
30°-40°	683.0	16.3
40°-50°	721.5	17.2
50°-60°	680.8	16.3
60°-70°	566.1	13.5
70°-80°	372.5	8.9
80°-90°	101.5	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°	1060.6	25.3
0°-40°	1743.5	41.7
0°-60°	3145.9	75.2
0°-90°	4186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1355	1355	1349	1355	1355	129
15°	1302	1304	1306	1318	1318	367
25°	1199	1206	1216	1237	1241	553
35°	1053	1065	1090	1118	1127	659
45°	873	890	934	980	997	672
55°	661	689	762	834	860	588
65°	424	473	584	670	699	419
75°	184	268	389	461	471	198
85°	35	77	95	105	107	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1358.2	1358.2	1358.2	1358.2	1358.2
2.5°	1359.9	1358.2	1351.1	1358.2	1358.2
5°	1354.7	1354.7	1349.3	1354.7	1354.7
7.5°	1345.9	1345.9	1342.4	1349.3	1349.3
10°	1335.4	1335.4	1333.5	1342.4	1342.4
12.5°	1319.6	1321.4	1319.6	1330.0	1330.0
15°	1302.1	1303.8	1305.5	1317.9	1317.9
17.5°	1279.3	1282.8	1286.3	1300.3	1302.1
20°	1258.3	1260.0	1267.0	1282.8	1284.5
22.5°	1230.1	1235.5	1244.2	1260.0	1265.2
25°	1198.7	1205.6	1216.2	1237.3	1240.7
27.5°	1168.8	1174.2	1188.1	1210.8	1218.0
30°	1132.2	1140.8	1158.4	1181.1	1189.8
32.5°	1097.1	1105.7	1126.7	1151.4	1158.4
35°	1053.3	1065.4	1090.1	1118.1	1126.7
37.5°	1011.2	1023.4	1053.3	1084.7	1095.3
40°	967.2	981.3	1013.0	1049.8	1063.7
42.5°	920.0	939.3	974.4	1014.7	1030.5
45°	872.7	890.3	934.1	979.6	997.1
47.5°	821.8	842.8	890.3	944.5	965.5
50°	767.6	793.9	848.3	907.9	930.6
52.5°	713.2	742.9	804.3	871.0	895.5
55°	660.6	688.7	762.2	834.2	860.4
57.5°	602.9	637.8	718.4	795.6	821.8
60°	543.3	581.9	674.7	755.3	783.2
62.5°	483.7	527.5	632.6	713.2	742.9
65°	424.1	473.1	583.6	669.5	699.1
67.5°	366.3	420.7	537.9	623.9	653.6
70°	299.7	368.0	488.9	573.0	602.9
72.5°	238.4	317.3	441.7	520.6	546.8
75°	184.0	268.1	389.0	461.0	471.4
77.5°	135.0	219.1	334.6	359.3	361.1
80°	91.0	175.3	255.9	252.3	255.9
82.5°	59.6	131.3	161.2	180.5	182.3
85°	35.1	77.2	94.7	105.1	106.8
87.5°	17.6	26.2	33.4	35.1	38.6
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)