

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: P732341

Luminaire Tested: **24CZ2-55HE-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732341  
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-2700K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

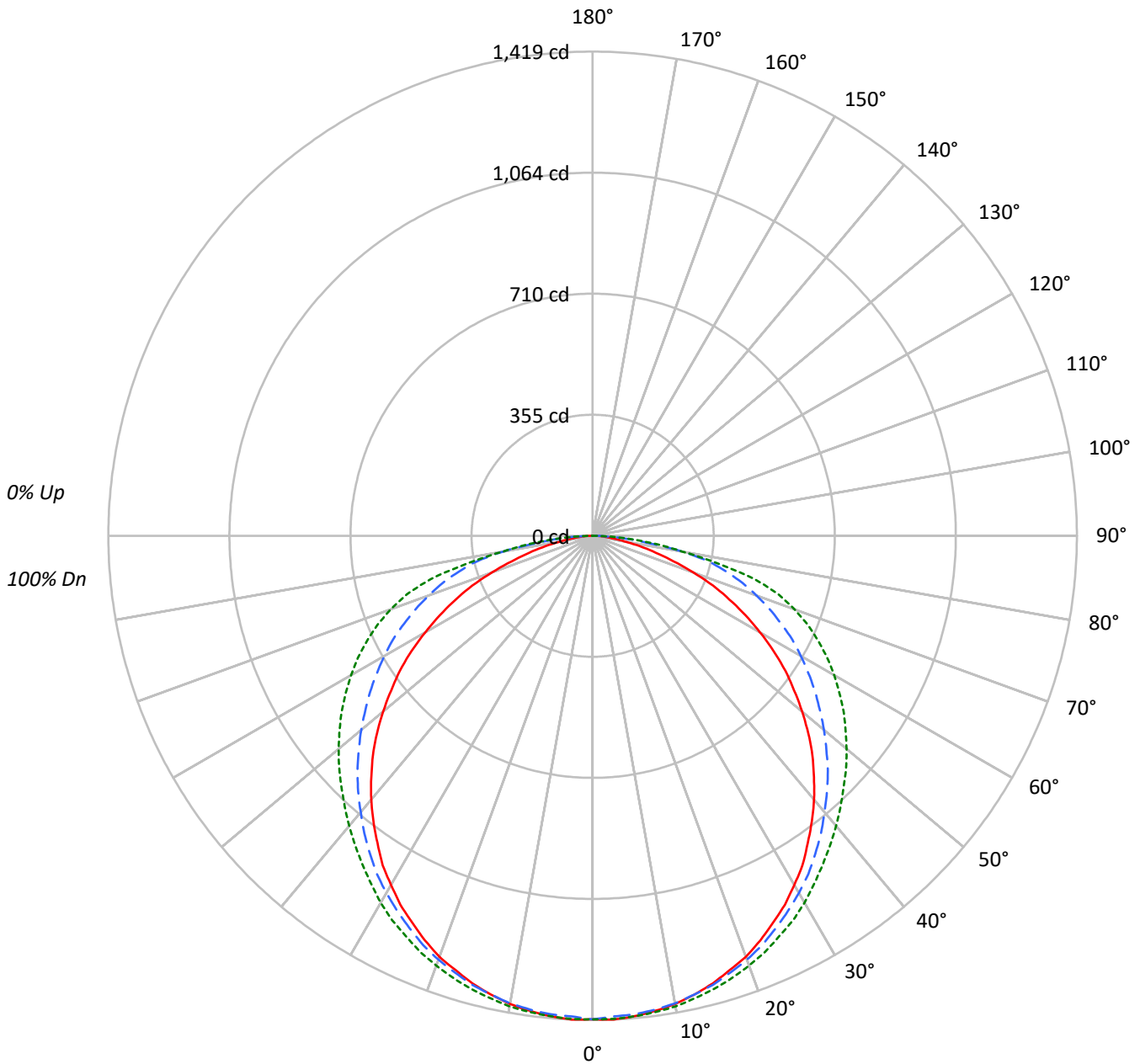
Lumens per Lamp: N/A  
Luminaire Lumens: 4368.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2000	2000	2000
5°	2003	1995	2003
10°	1997	1994	2007
15°	1985	1990	2009
20°	1972	1986	2013
25°	1948	1976	2016
30°	1925	1970	2023
35°	1894	1960	2026
40°	1860	1947	2045
45°	1818	1945	2077
50°	1759	1943	2132
55°	1696	1957	2209
60°	1600	1987	2307
65°	1478	2034	2436
70°	1291	2105	2596
75°	1047	2213	2682
80°	772	2171	2171
85°	593	1600	1806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	3.1
10°-20°	385.5	8.8
20°-30°	586.9	13.4
30°-40°	712.6	16.3
40°-50°	752.9	17.2
50°-60°	710.4	16.3
60°-70°	590.7	13.5
70°-80°	388.7	8.9
80°-90°	105.9	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°	1106.7	25.3
0°-40°	1819.3	41.7
0°-60°	3282.7	75.2
0°-90°	4368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1414	1414	1408	1414	1414	134
15°	1359	1360	1362	1375	1375	383
25°	1251	1258	1269	1291	1295	577
35°	1099	1112	1138	1167	1176	688
45°	911	929	975	1022	1040	701
55°	689	719	795	870	898	614
65°	443	494	609	699	730	438
75°	192	280	406	481	492	207
85°	37	80	99	110	112	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1417.3	1417.3	1417.3	1417.3	1417.3
2.5°	1419.1	1417.3	1409.8	1417.3	1417.3
5°	1413.6	1413.6	1408.0	1413.6	1413.6
7.5°	1404.4	1404.4	1400.7	1408.0	1408.0
10°	1393.5	1393.5	1391.5	1400.7	1400.7
12.5°	1377.0	1378.8	1377.0	1387.9	1387.9
15°	1358.7	1360.5	1362.3	1375.2	1375.2
17.5°	1334.9	1338.6	1342.2	1356.9	1358.7
20°	1313.0	1314.8	1322.0	1338.6	1340.4
22.5°	1283.6	1289.3	1298.3	1314.8	1320.2
25°	1250.8	1258.0	1269.1	1291.1	1294.7
27.5°	1219.6	1225.3	1239.7	1263.5	1270.9
30°	1181.4	1190.4	1208.7	1232.5	1241.5
32.5°	1144.7	1153.8	1175.7	1201.5	1208.7
35°	1099.1	1111.7	1137.5	1166.7	1175.7
37.5°	1055.2	1067.9	1099.1	1131.9	1142.9
40°	1009.3	1024.0	1057.0	1095.5	1109.9
42.5°	960.0	980.1	1016.8	1058.8	1075.3
45°	910.7	929.0	974.7	1022.2	1040.5
47.5°	857.5	879.5	929.0	985.5	1007.5
50°	801.0	828.4	885.1	947.3	971.1
52.5°	744.2	775.2	839.2	908.9	934.4
55°	689.3	718.7	795.4	870.4	897.8
57.5°	629.1	665.5	749.7	830.2	857.5
60°	566.9	607.2	704.0	788.1	817.3
62.5°	504.8	550.4	660.1	744.2	775.2
65°	442.6	493.7	609.0	698.6	729.5
67.5°	382.2	438.9	561.3	651.1	682.1
70°	312.8	384.0	510.2	597.9	629.1
72.5°	248.8	331.1	460.9	543.2	570.6
75°	192.0	279.7	405.9	481.0	491.9
77.5°	140.9	228.6	349.2	374.9	376.8
80°	95.0	183.0	267.1	263.2	267.1
82.5°	62.2	137.0	168.3	188.4	190.2
85°	36.6	80.5	98.8	109.7	111.5
87.5°	18.3	27.4	34.8	36.6	40.3
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)