

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: P880928

Luminaire Tested: **24CZ2-55VHE-HRP-B2750-W2D-3000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55VHE-HRP-B2750-W2D-3000K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

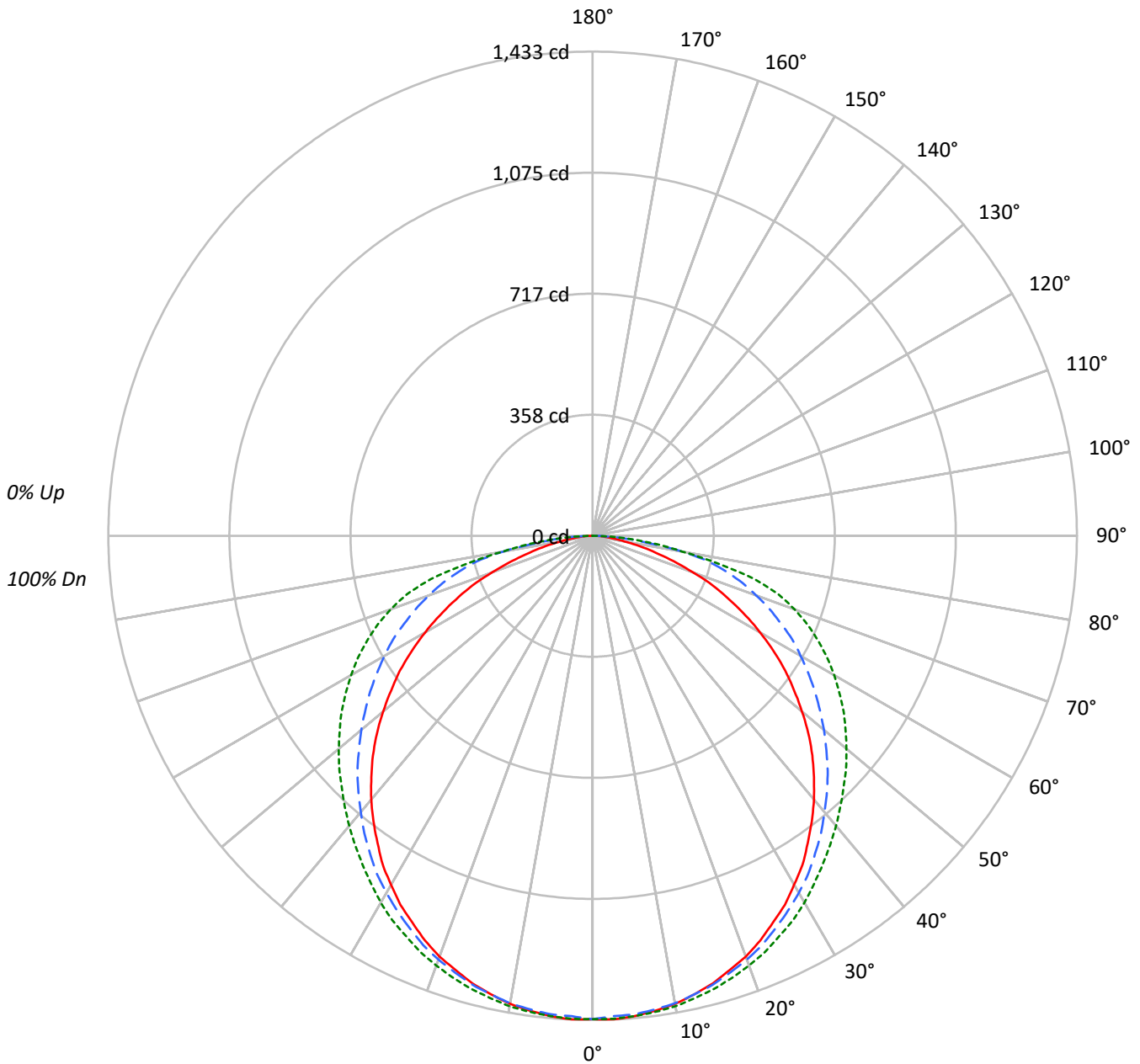
Lumens per Lamp: N/A  
Luminaire Lumens: 4410.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 43  
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°	2019	2019	2019
5°	2022	2014	2022
10°	2016	2014	2027
15°	2004	2010	2029
20°	1991	2005	2033
25°	1966	1995	2035
30°	1944	1989	2043
35°	1912	1978	2045
40°	1877	1966	2065
45°	1835	1964	2097
50°	1776	1962	2153
55°	1713	1976	2231
60°	1615	2006	2329
65°	1492	2053	2461
70°	1303	2125	2621
75°	1057	2235	2708
80°	781	2192	2192
85°	598	1614	1823



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	3.1
10°-20°	389.2	8.8
20°-30°	592.6	13.4
30°-40°	719.5	16.3
40°-50°	760.1	17.2
50°-60°	717.3	16.3
60°-70°	596.4	13.5
70°-80°	392.4	8.9
80°-90°	107.0	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°	1117.3	25.3
0°-40°	1836.8	41.7
0°-60°	3314.2	75.2
0°-90°	4410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1427	1427	1422	1427	1427	136
15°	1372	1374	1376	1388	1388	387
25°	1263	1270	1281	1303	1307	583
35°	1110	1123	1148	1178	1187	695
45°	919	938	984	1032	1050	708
55°	696	726	803	879	907	620
65°	447	499	615	705	737	442
75°	194	283	410	486	497	209
85°	37	81	100	111	113	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1430.8	1430.8	1430.8	1430.8	1430.8
2.5°	1432.6	1430.8	1423.4	1430.8	1430.8
5°	1427.2	1427.2	1421.5	1427.2	1427.2
7.5°	1417.9	1417.9	1414.1	1421.5	1421.5
10°	1406.8	1406.8	1405.0	1414.1	1414.1
12.5°	1390.2	1391.9	1390.2	1401.2	1401.2
15°	1371.7	1373.5	1375.5	1388.4	1388.4
17.5°	1347.8	1351.5	1355.1	1369.9	1371.7
20°	1325.6	1327.3	1334.7	1351.5	1353.3
22.5°	1296.2	1301.6	1310.9	1327.3	1333.1
25°	1262.7	1270.1	1281.2	1303.4	1307.1
27.5°	1231.4	1237.0	1251.8	1275.8	1283.2
30°	1192.6	1201.9	1220.3	1244.3	1253.6
32.5°	1155.7	1165.0	1187.2	1212.8	1220.3
35°	1109.6	1122.6	1148.2	1177.9	1187.2
37.5°	1065.2	1078.2	1109.6	1142.8	1154.0
40°	1019.0	1033.8	1067.2	1105.8	1120.6
42.5°	969.2	989.5	1026.5	1068.9	1085.6
45°	919.3	937.9	983.9	1031.9	1050.5
47.5°	866.0	888.2	937.9	995.2	1017.4
50°	808.7	836.3	893.7	956.2	980.4
52.5°	751.5	782.8	847.4	917.5	943.5
55°	696.0	725.5	803.0	878.9	906.6
57.5°	635.1	672.2	757.0	838.1	866.0
60°	572.3	613.1	710.8	795.6	825.2
62.5°	509.5	555.7	666.4	751.5	782.8
65°	446.7	498.6	614.9	705.3	736.8
67.5°	385.8	443.1	566.8	657.3	688.6
70°	315.7	387.8	515.0	603.8	635.1
72.5°	251.1	334.3	465.1	548.5	576.1
75°	193.8	282.6	409.8	485.5	496.6
77.5°	142.1	230.7	352.7	378.3	380.3
80°	96.1	184.5	269.7	265.9	269.7
82.5°	62.8	138.5	169.8	190.2	192.0
85°	36.9	81.3	99.7	110.8	112.6
87.5°	18.4	27.7	35.1	36.9	40.6
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)