

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: P880931

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

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: P880931  
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-5000K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

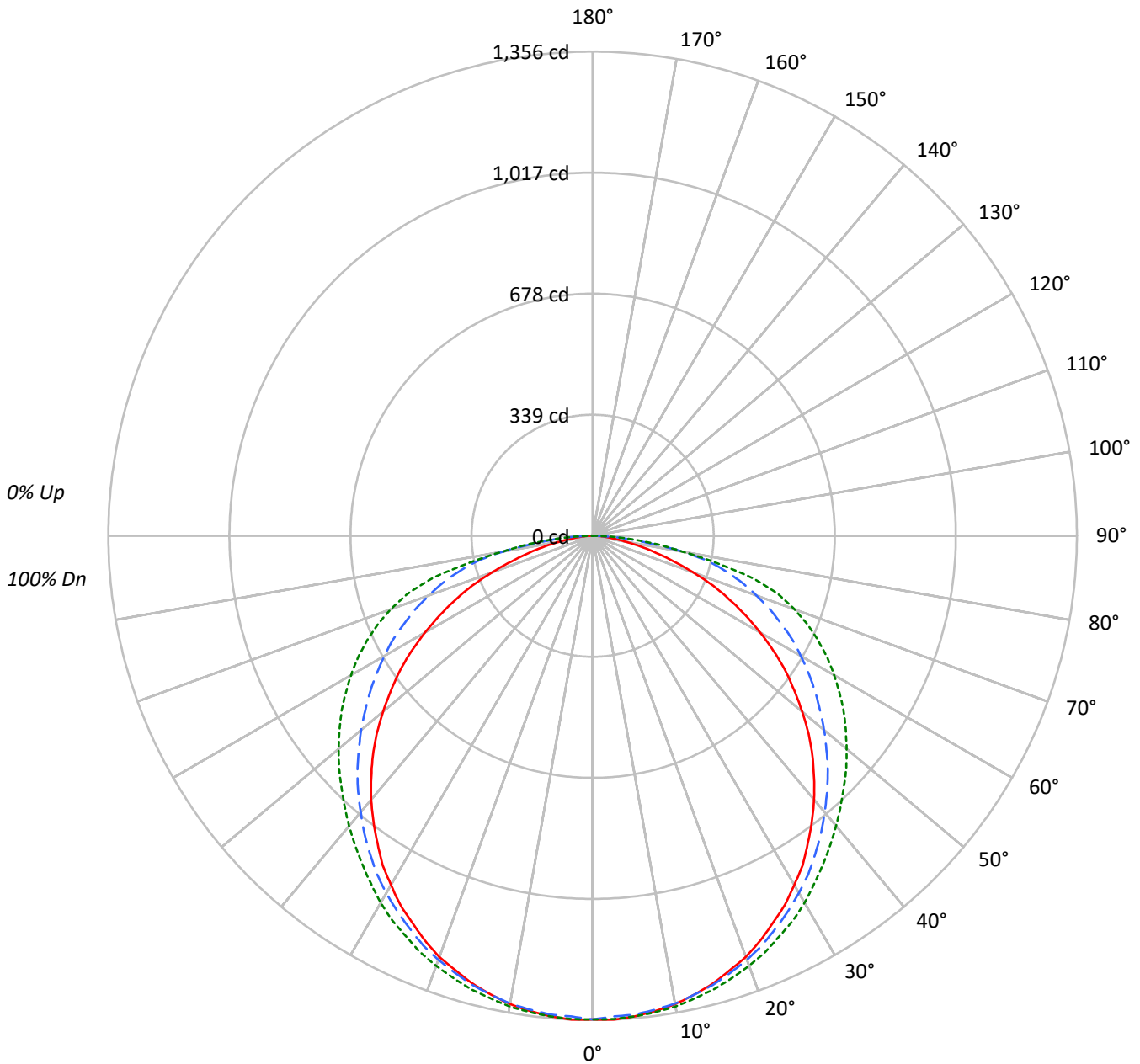
Lumens per Lamp: N/A  
Luminaire Lumens: 4175.0 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	1912	1912	1912
5°	1914	1907	1914
10°	1909	1906	1919
15°	1897	1903	1921
20°	1885	1898	1924
25°	1862	1889	1927
30°	1840	1883	1934
35°	1810	1873	1936
40°	1777	1862	1955
45°	1737	1859	1985
50°	1681	1858	2038
55°	1621	1871	2112
60°	1529	1899	2205
65°	1412	1944	2329
70°	1233	2012	2481
75°	1001	2116	2563
80°	740	2075	2075
85°	567	1529	1726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.3	3.1
10°-20°	368.5	8.8
20°-30°	561.0	13.4
30°-40°	681.2	16.3
40°-50°	719.6	17.2
50°-60°	679.1	16.3
60°-70°	564.6	13.5
70°-80°	371.5	8.9
80°-90°	101.3	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°	1057.8	25.3
0°-40°	1738.9	41.7
0°-60°	3137.7	75.2
0°-90°	4175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1351	1351	1346	1351	1351	128
15°	1299	1300	1302	1314	1314	366
25°	1195	1202	1213	1234	1237	551
35°	1050	1063	1087	1115	1124	658
45°	870	888	932	977	994	670
55°	659	687	760	832	858	587
65°	423	472	582	668	698	418
75°	184	268	388	460	470	198
85°	35	77	94	105	107	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1354.6	1354.6	1354.6	1354.6	1354.6
2.5°	1356.3	1354.6	1347.5	1354.6	1354.6
5°	1351.1	1351.1	1345.8	1351.1	1351.1
7.5°	1342.3	1342.3	1338.7	1345.8	1345.8
10°	1331.8	1331.8	1330.1	1338.7	1338.7
12.5°	1316.2	1317.7	1316.2	1326.5	1326.5
15°	1298.6	1300.3	1302.2	1314.4	1314.4
17.5°	1276.0	1279.5	1282.9	1296.9	1298.6
20°	1255.0	1256.6	1263.6	1279.5	1281.2
22.5°	1227.1	1232.3	1241.1	1256.6	1262.1
25°	1195.4	1202.5	1213.0	1234.0	1237.4
27.5°	1165.8	1171.1	1185.1	1207.8	1214.9
30°	1129.1	1137.9	1155.3	1178.0	1186.8
32.5°	1094.1	1102.9	1123.9	1148.2	1155.3
35°	1050.5	1062.7	1087.0	1115.1	1123.9
37.5°	1008.5	1020.7	1050.5	1081.9	1092.6
40°	964.7	978.7	1010.4	1046.9	1060.9
42.5°	917.5	936.8	971.8	1011.9	1027.8
45°	870.3	887.9	931.5	977.0	994.5
47.5°	819.8	840.9	887.9	942.2	963.2
50°	765.6	791.8	846.0	905.3	928.2
52.5°	711.5	741.1	802.3	868.6	893.2
55°	658.9	686.8	760.2	832.1	858.3
57.5°	601.2	636.4	716.7	793.5	819.8
60°	541.8	580.4	672.9	753.2	781.3
62.5°	482.4	526.1	630.9	711.5	741.1
65°	422.9	472.0	582.1	667.7	697.5
67.5°	365.2	419.5	536.6	622.2	651.9
70°	298.9	367.1	487.5	571.6	601.2
72.5°	237.7	316.5	440.3	519.2	545.4
75°	183.5	267.5	388.0	459.6	470.1
77.5°	134.5	218.4	333.9	358.2	360.0
80°	91.0	174.7	255.3	251.7	255.3
82.5°	59.4	131.1	160.7	180.0	181.7
85°	35.0	77.0	94.4	104.9	106.6
87.5°	17.4	26.2	33.2	35.0	38.4
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)