

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: P881258

Luminaire Tested: **24CZ2-65VHE-HRP-UNV-B40**

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: P881258
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: 24CZ2-65VHE-HRP-UNV-B40
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

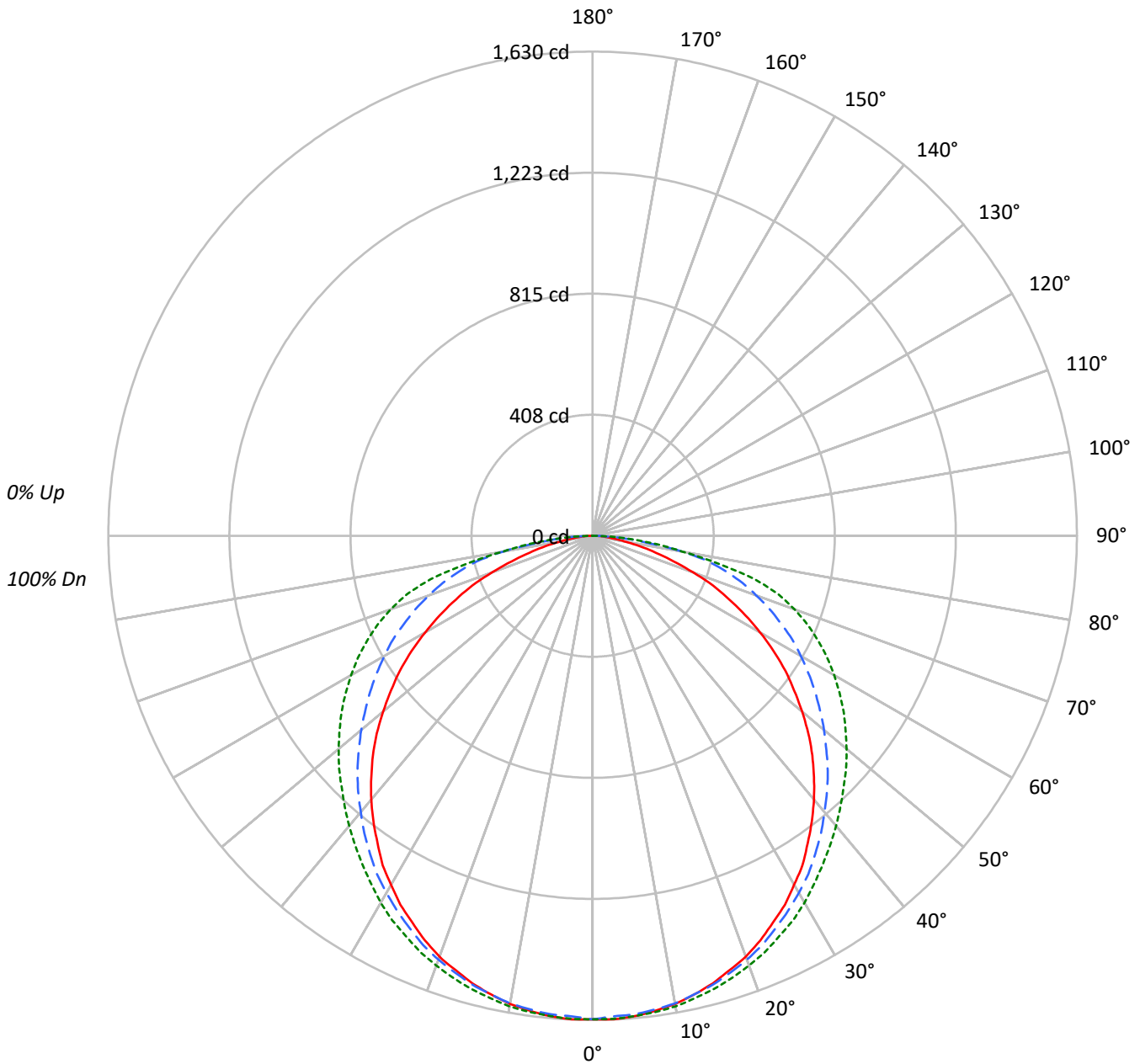
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5017.0 lumens
Efficiency: N/A
Efficacy: 98.4 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): 51
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°	2297	2297	2297
5°	2300	2291	2300
10°	2294	2291	2305
15°	2280	2286	2308
20°	2265	2281	2312
25°	2237	2270	2316
30°	2211	2262	2324
35°	2175	2251	2327
40°	2136	2237	2349
45°	2087	2234	2385
50°	2020	2232	2449
55°	1948	2248	2538
60°	1838	2282	2650
65°	1697	2336	2799
70°	1482	2418	2981
75°	1202	2542	3080
80°	888	2494	2494
85°	680	1836	2074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.1
10°-20°	442.8	8.8
20°-30°	674.1	13.4
30°-40°	818.5	16.3
40°-50°	864.8	17.2
50°-60°	816.0	16.3
60°-70°	678.5	13.5
70°-80°	446.4	8.9
80°-90°	121.7	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°	1271.1	25.3
0°-40°	2089.6	41.7
0°-60°	3770.5	75.2
0°-90°	5017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1624	1624	1617	1624	1624	154
15°	1560	1563	1565	1580	1580	440
25°	1436	1445	1458	1483	1487	663
35°	1262	1277	1306	1340	1351	790
45°	1046	1067	1119	1174	1195	805
55°	792	825	914	1000	1031	705
65°	508	567	700	802	838	502
75°	220	322	466	552	565	238
85°	42	92	113	126	128	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1629.8	1627.8	1619.3	1627.8	1627.8
5°	1623.6	1623.6	1617.2	1623.6	1623.6
7.5°	1613.1	1613.1	1608.7	1617.2	1617.2
10°	1600.4	1600.4	1598.4	1608.7	1608.7
12.5°	1581.6	1583.5	1581.6	1594.0	1594.0
15°	1560.5	1562.6	1564.8	1579.5	1579.5
17.5°	1533.4	1537.5	1541.6	1558.4	1560.5
20°	1508.1	1510.0	1518.5	1537.5	1539.6
22.5°	1474.6	1480.8	1491.3	1510.0	1516.6
25°	1436.5	1445.0	1457.6	1482.9	1487.0
27.5°	1400.9	1407.3	1424.1	1451.4	1459.9
30°	1356.8	1367.3	1388.2	1415.6	1426.1
32.5°	1314.8	1325.3	1350.6	1379.8	1388.2
35°	1262.4	1277.1	1306.3	1340.0	1350.6
37.5°	1211.9	1226.6	1262.4	1300.1	1312.9
40°	1159.3	1176.1	1214.1	1258.0	1274.8
42.5°	1102.6	1125.8	1167.8	1216.0	1235.1
45°	1045.8	1067.0	1119.3	1174.0	1195.1
47.5°	985.2	1010.4	1067.0	1132.2	1157.4
50°	920.0	951.4	1016.7	1087.9	1115.4
52.5°	855.0	890.6	964.1	1043.8	1073.4
55°	791.8	825.4	913.6	999.9	1031.4
57.5°	722.5	764.7	861.2	953.5	985.2
60°	651.1	697.4	808.6	905.1	938.8
62.5°	579.6	632.2	758.1	855.0	890.6
65°	508.2	567.2	699.5	802.4	838.2
67.5°	438.9	504.1	644.9	747.7	783.3
70°	359.2	441.2	585.9	686.9	722.5
72.5°	285.7	380.3	529.1	623.9	655.4
75°	220.5	321.5	466.2	552.3	564.9
77.5°	161.7	262.5	401.2	430.4	432.7
80°	109.3	209.9	306.8	302.4	306.8
82.5°	71.4	157.5	193.1	216.3	218.4
85°	42.0	92.5	113.4	126.1	128.1
87.5°	20.9	31.5	40.0	42.0	46.2
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)