

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: P881173

Luminaire Tested: **24CZ2-35VHE-S-UNV-B35**

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: P881173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35VHE-S-UNV-B35
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

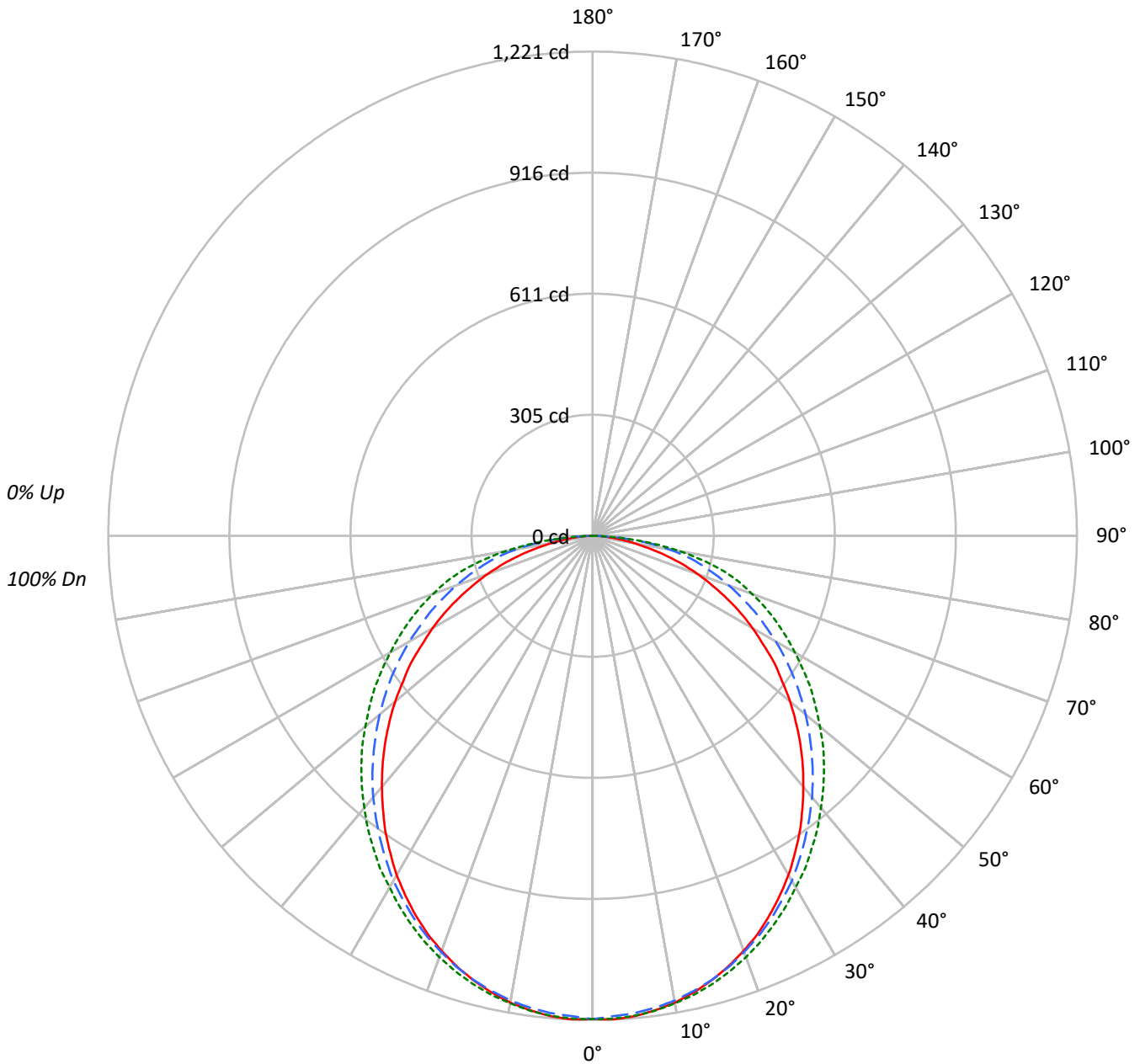
Lumens per Lamp: N/A
Luminaire Lumens: 3492.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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					20					
RC	80					70					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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68								
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57								
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37								
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1720	1720	1720
5°	1723	1712	1721
10°	1713	1706	1716
15°	1695	1694	1709
20°	1672	1677	1698
25°	1644	1659	1685
30°	1610	1638	1668
35°	1569	1609	1659
40°	1523	1585	1650
45°	1477	1560	1646
50°	1427	1539	1642
55°	1376	1520	1651
60°	1313	1506	1663
65°	1243	1500	1703
70°	1160	1508	1763
75°	1032	1551	1858
80°	844	1585	1814
85°	594	1385	1412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	3.3
10°-20°	328.2	9.4
20°-30°	492.0	14.1
30°-40°	585.9	16.8
40°-50°	604.2	17.3
50°-60°	551.3	15.8
60°-70°	440.8	12.6
70°-80°	288.0	8.2
80°-90°	86.5	2.5
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°	935.4	26.8
0°-40°	1521.3	43.6
0°-60°	2676.8	76.7
0°-90°	3492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1216	1214	1208	1216	1215	115
15°	1160	1161	1160	1170	1170	327
25°	1056	1058	1065	1081	1082	486
35°	911	917	934	957	963	569
45°	740	753	782	814	825	571
55°	559	575	618	658	671	498
65°	372	398	449	493	510	369
75°	189	221	284	330	341	201
85°	37	66	86	87	87	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1220.6	1218.9	1212.5	1220.1	1218.9
5°	1216.1	1213.6	1208.5	1216.1	1214.9
7.5°	1206.8	1205.6	1200.5	1209.1	1207.9
10°	1195.3	1194.2	1190.2	1198.8	1197.1
12.5°	1179.3	1178.7	1175.9	1186.2	1185.0
15°	1160.3	1160.9	1159.7	1169.6	1169.6
17.5°	1138.6	1138.0	1140.3	1152.3	1151.2
20°	1113.3	1113.9	1116.7	1130.6	1130.6
22.5°	1087.0	1086.4	1092.7	1106.4	1107.6
25°	1055.9	1057.7	1065.1	1080.7	1081.8
27.5°	1022.6	1025.6	1034.8	1052.5	1054.2
30°	987.7	991.2	1004.9	1021.5	1023.8
32.5°	949.3	956.7	969.3	990.6	996.3
35°	910.8	917.1	933.8	957.3	963.0
37.5°	868.4	878.7	897.7	923.4	931.0
40°	826.5	836.9	860.4	887.4	895.4
42.5°	784.0	795.0	821.9	852.4	860.9
45°	740.0	753.1	781.7	814.5	824.8
47.5°	694.7	710.1	741.1	776.6	788.2
50°	649.9	665.4	701.0	737.6	748.0
52.5°	601.7	621.2	659.1	698.7	709.0
55°	559.3	575.3	617.8	658.5	671.1
57.5°	509.4	531.1	576.4	617.8	629.8
60°	465.2	485.2	533.4	575.3	589.0
62.5°	420.5	441.1	489.2	536.8	549.5
65°	372.3	397.5	449.1	493.2	509.9
67.5°	326.4	352.7	405.6	452.5	469.8
70°	281.1	308.0	365.4	413.6	427.3
72.5°	236.3	264.5	324.1	371.1	387.2
75°	189.3	220.9	284.5	330.4	340.7
77.5°	145.1	180.1	244.3	275.3	282.8
80°	103.8	142.3	195.0	217.4	223.2
82.5°	68.2	105.5	145.7	157.7	156.0
85°	36.7	65.9	85.5	87.2	87.2
87.5°	14.3	26.4	27.0	20.6	19.5
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)