

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: P881168

Luminaire Tested: **24CZ2-35VHE-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: P881168
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: 24CZ2-35VHE-HRP-UNV-B40
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

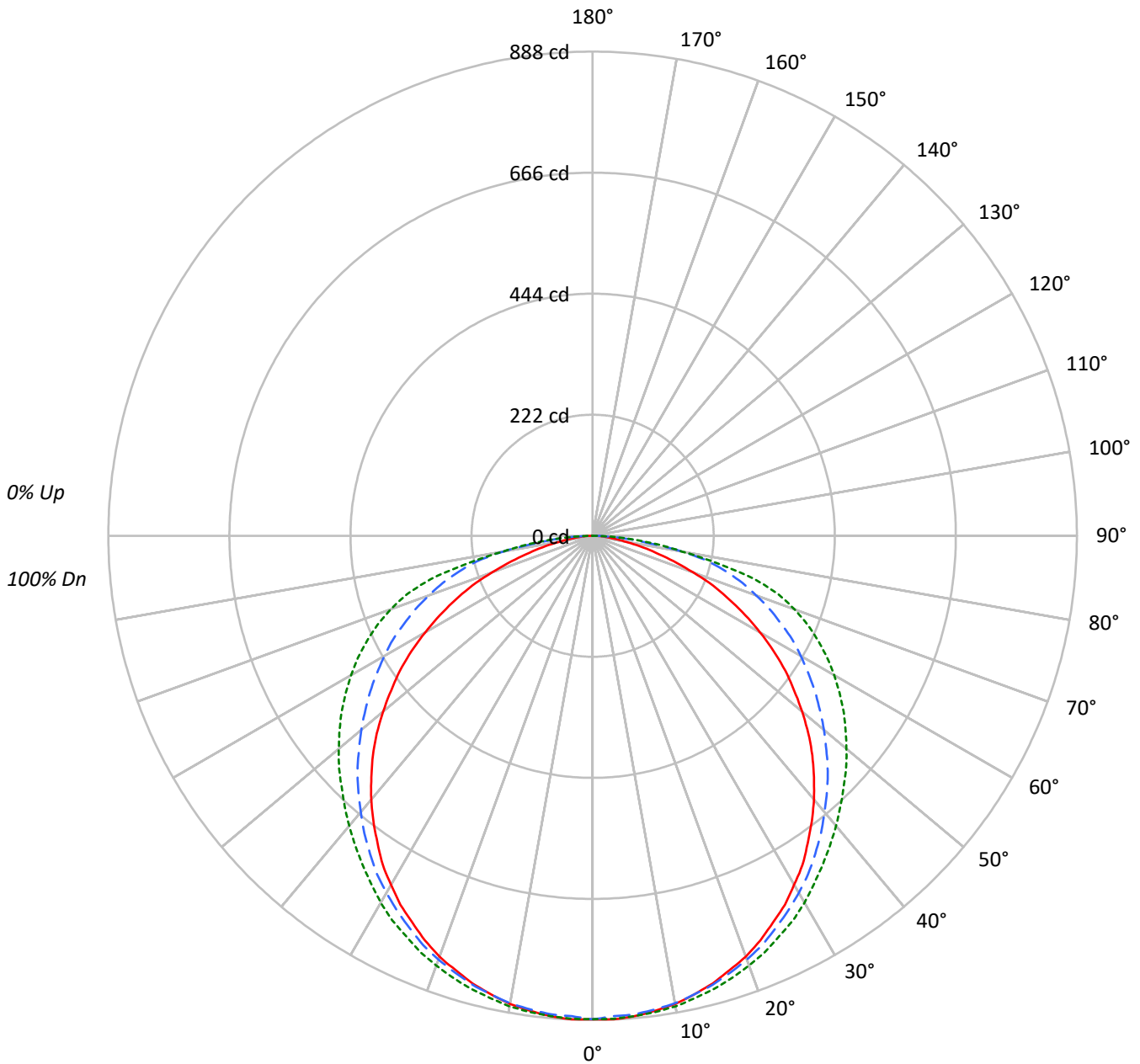
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2733.0 lumens
Efficiency: N/A
Efficacy: 101.2 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): 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									
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°	1251	1251	1251
5°	1253	1248	1253
10°	1249	1248	1256
15°	1242	1245	1257
20°	1234	1242	1260
25°	1219	1236	1261
30°	1204	1232	1266
35°	1185	1226	1268
40°	1163	1219	1279
45°	1137	1217	1299
50°	1100	1216	1334
55°	1062	1225	1382
60°	1001	1243	1444
65°	925	1273	1525
70°	808	1317	1624
75°	655	1385	1678
80°	484	1358	1358
85°	371	1001	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.1
10°-20°	241.2	8.8
20°-30°	367.2	13.4
30°-40°	445.9	16.3
40°-50°	471.1	17.2
50°-60°	444.5	16.3
60°-70°	369.6	13.5
70°-80°	243.2	8.9
80°-90°	66.3	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°	692.4	25.3
0°-40°	1138.3	41.7
0°-60°	2053.9	75.2
0°-90°	2733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	884	884	881	884	884	84
15°	850	851	852	860	860	240
25°	782	787	794	808	810	361
35°	688	696	712	730	736	430
45°	570	581	610	640	651	439
55°	431	450	498	545	562	384
65°	277	309	381	437	457	274
75°	120	175	254	301	308	129
85°	23	50	62	69	70	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.7	886.7	886.7	886.7	886.7
2.5°	887.8	886.7	882.1	886.7	886.7
5°	884.5	884.5	881.0	884.5	884.5
7.5°	878.7	878.7	876.3	881.0	881.0
10°	871.8	871.8	870.7	876.3	876.3
12.5°	861.6	862.6	861.6	868.3	868.3
15°	850.1	851.2	852.4	860.4	860.4
17.5°	835.3	837.6	839.8	848.9	850.1
20°	821.5	822.6	827.2	837.6	838.7
22.5°	803.3	806.7	812.4	822.6	826.2
25°	782.5	787.1	794.0	807.8	810.0
27.5°	763.1	766.6	775.8	790.6	795.3
30°	739.1	744.9	756.2	771.1	776.9
32.5°	716.2	722.0	735.7	751.6	756.2
35°	687.7	695.7	711.6	730.0	735.7
37.5°	660.2	668.2	687.7	708.2	715.2
40°	631.5	640.7	661.4	685.3	694.4
42.5°	600.6	613.3	636.1	662.4	672.8
45°	569.7	581.2	609.8	639.5	651.0
47.5°	536.7	550.4	581.2	616.7	630.5
50°	501.2	518.3	553.8	592.6	607.6
52.5°	465.7	485.1	525.2	568.6	584.7
55°	431.4	449.6	497.7	544.7	561.8
57.5°	393.6	416.6	469.1	519.4	536.7
60°	354.7	379.9	440.5	493.0	511.4
62.5°	315.8	344.4	413.0	465.7	485.1
65°	276.9	309.0	381.1	437.1	456.6
67.5°	239.1	274.6	351.3	407.3	426.7
70°	195.7	240.3	319.1	374.2	393.6
72.5°	155.6	207.2	288.2	339.9	357.0
75°	120.1	175.1	254.0	300.9	307.8
77.5°	88.1	143.0	218.6	234.5	235.7
80°	59.5	114.4	167.1	164.8	167.1
82.5°	38.9	85.8	105.2	117.8	119.0
85°	22.9	50.4	61.8	68.7	69.8
87.5°	11.4	17.1	21.8	22.9	25.1
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)