

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: P881171

Luminaire Tested: **24CZ2-35VHE-RDP-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: P881171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35VHE-RDP-UNV-B40
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

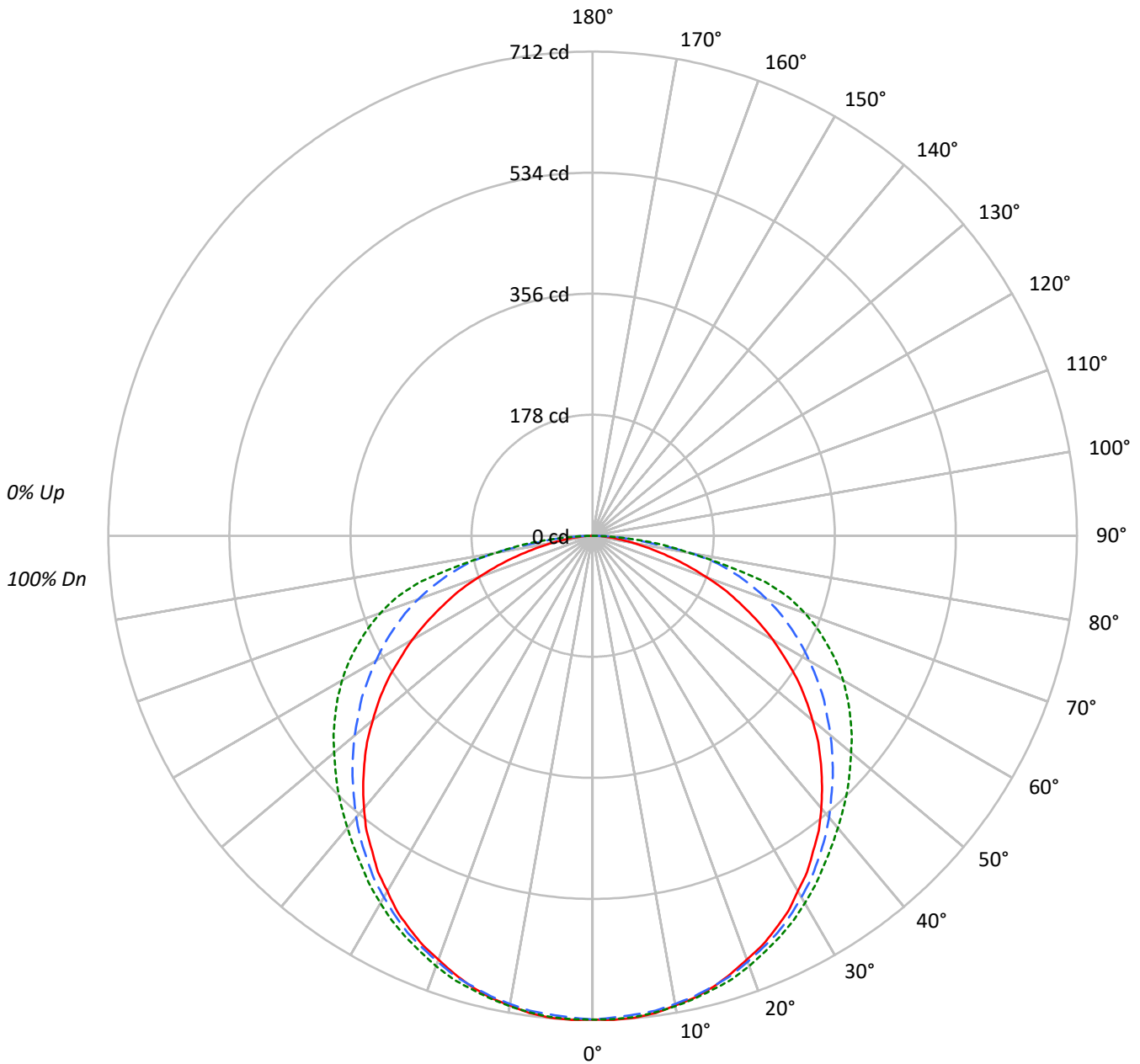
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2262.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1004	1004	1004
5°	1008	1001	1006
10°	1005	1002	1007
15°	1003	1002	1008
20°	996	1001	1011
25°	992	1003	1013
30°	984	1000	1017
35°	974	997	1021
40°	963	996	1033
45°	947	997	1057
50°	926	1003	1089
55°	903	1019	1137
60°	865	1039	1200
65°	809	1075	1274
70°	736	1125	1370
75°	624	1187	1432
80°	493	1194	1157
85°	364	908	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.0
10°-20°	194.2	8.6
20°-30°	297.0	13.1
30°-40°	363.0	16.0
40°-50°	386.9	17.1
50°-60°	369.9	16.4
60°-70°	313.4	13.9
70°-80°	210.6	9.3
80°-90°	59.4	2.6
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°	558.6	24.7
0°-40°	921.7	40.7
0°-60°	1678.5	74.2
0°-90°	2262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	711	710	707	710	710	68
15°	687	687	686	691	690	194
25°	637	640	644	650	651	294
35°	565	570	579	590	592	354
45°	475	482	499	521	530	366
55°	367	380	414	447	462	327
65°	242	267	322	365	382	241
75°	114	156	218	255	263	123
85°	22	46	56	61	63	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.4	711.4	711.4	711.4	711.4
2.5°	712.5	712.5	709.1	711.4	711.4
5°	711.4	710.3	706.9	710.3	710.3
7.5°	708.0	706.9	704.6	708.0	706.9
10°	701.3	701.3	699.0	702.4	702.4
12.5°	695.6	694.5	693.4	697.9	696.8
15°	686.6	686.6	685.5	691.1	690.0
17.5°	675.4	676.5	677.7	682.2	683.3
20°	663.1	665.4	666.5	673.2	673.2
22.5°	651.9	653.0	655.3	662.0	662.0
25°	637.3	639.5	644.0	649.6	650.8
27.5°	622.6	623.8	629.4	637.3	638.4
30°	603.6	607.0	613.8	622.6	623.8
32.5°	586.8	590.1	598.0	607.0	609.3
35°	565.4	569.9	578.9	590.1	592.4
37.5°	546.4	549.7	560.9	573.3	576.6
40°	522.9	529.5	540.8	555.4	560.9
42.5°	499.3	506.1	519.5	538.5	545.2
45°	474.6	482.5	499.3	520.6	529.5
47.5°	450.0	458.9	478.0	502.7	512.7
50°	421.8	433.1	456.6	484.7	496.0
52.5°	395.0	408.4	434.2	465.6	480.2
55°	366.8	380.3	414.0	446.6	462.2
57.5°	335.5	353.3	390.5	427.5	444.3
60°	306.3	323.1	368.0	408.4	425.2
62.5°	274.9	297.3	345.6	388.2	405.0
65°	242.3	267.1	322.0	364.6	381.5
67.5°	213.2	240.2	298.4	341.1	357.8
70°	178.4	212.0	272.7	315.2	332.1
72.5°	145.8	182.9	245.7	287.3	302.9
75°	114.4	155.9	217.7	254.7	262.6
77.5°	85.3	129.0	188.4	204.2	198.6
80°	60.6	103.3	146.9	139.0	142.4
82.5°	39.3	78.6	90.9	103.3	106.5
85°	22.5	46.0	56.1	60.6	62.9
87.5°	10.1	16.9	22.5	22.5	21.4
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)