

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: P881170

Luminaire Tested: **24CZ2-35VHE-RDP-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: P881170
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-B35
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

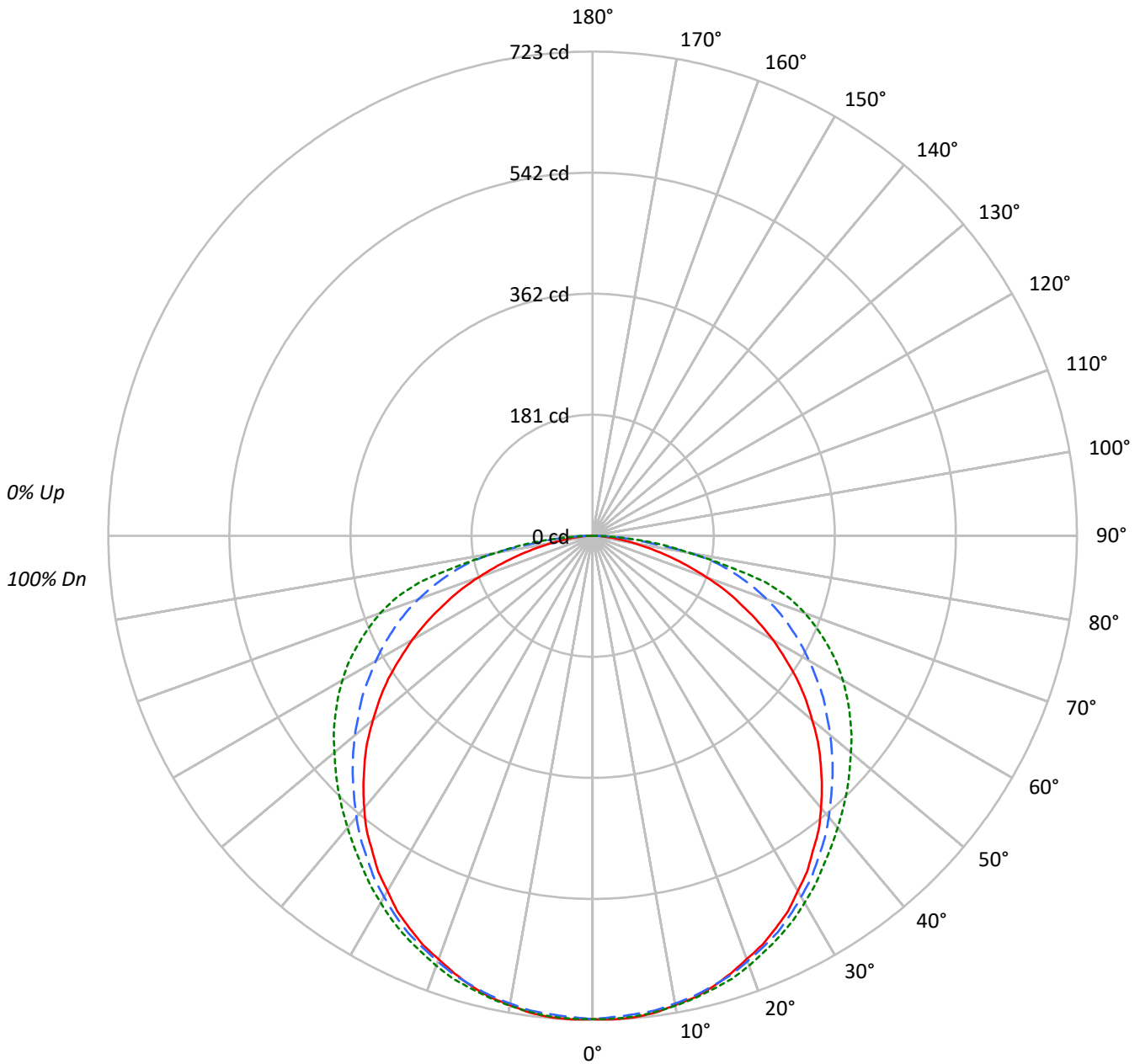
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2295.0 lumens
Efficiency: N/A
Efficacy: 85.0 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

TEST NUMBER: P881170
CATALOG NUMBER: 24CZ2-35VHE-RDP-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P881170

CATALOG NUMBER: 24CZ2-35VHE-RDP-UNV-B35

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°	1019	1019	1019
5°	1023	1016	1021
10°	1020	1016	1021
15°	1018	1016	1023
20°	1010	1016	1026
25°	1007	1018	1028
30°	998	1015	1031
35°	988	1012	1035
40°	978	1011	1048
45°	961	1011	1072
50°	940	1017	1105
55°	916	1034	1154
60°	877	1054	1218
65°	821	1091	1293
70°	747	1142	1390
75°	633	1205	1453
80°	500	1212	1174
85°	369	921	1033



TEST NUMBER: P881170

CATALOG NUMBER: 24CZ2-35VHE-RDP-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.0
10°-20°	197.0	8.6
20°-30°	301.3	13.1
30°-40°	368.3	16.0
40°-50°	392.6	17.1
50°-60°	375.3	16.4
60°-70°	318.0	13.9
70°-80°	213.7	9.3
80°-90°	60.3	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°	566.8	24.7
0°-40°	935.1	40.7
0°-60°	1703.0	74.2
0°-90°	2295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	722	721	717	721	721	69
15°	697	697	696	701	700	196
25°	647	649	653	659	660	298
35°	574	578	587	599	601	359
45°	482	490	507	528	537	371
55°	372	386	420	453	469	332
65°	246	271	327	370	387	244
75°	116	158	221	258	266	124
85°	23	47	57	62	64	28
90°	0	0	0	0	0	



TEST NUMBER: P881170

CATALOG NUMBER: 24CZ2-35VHE-RDP-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.8	721.8	721.8	721.8	721.8
2.5°	722.9	722.9	719.4	721.8	721.8
5°	721.8	720.6	717.2	720.6	720.6
7.5°	718.3	717.2	714.9	718.3	717.2
10°	711.5	711.5	709.2	712.6	712.6
12.5°	705.7	704.6	703.5	708.1	707.0
15°	696.6	696.6	695.5	701.2	700.1
17.5°	685.3	686.4	687.6	692.2	693.3
20°	672.7	675.1	676.2	683.1	683.1
22.5°	661.4	662.5	664.8	671.6	671.6
25°	646.6	648.8	653.4	659.1	660.3
27.5°	631.7	632.9	638.6	646.6	647.7
30°	612.4	615.8	622.7	631.7	632.9
32.5°	595.4	598.7	606.7	615.8	618.2
35°	573.7	578.2	587.4	598.7	601.0
37.5°	554.3	557.7	569.1	581.7	585.0
40°	530.6	537.2	548.7	563.5	569.1
42.5°	506.6	513.4	527.1	546.3	553.1
45°	481.5	489.5	506.6	528.2	537.2
47.5°	456.5	465.6	485.0	510.0	520.2
50°	428.0	439.4	463.3	491.8	503.2
52.5°	400.7	414.4	440.5	472.4	487.2
55°	372.2	385.8	420.1	453.1	469.0
57.5°	340.4	358.5	396.2	433.7	450.7
60°	310.8	327.8	373.4	414.4	431.4
62.5°	278.9	301.7	350.6	393.8	411.0
65°	245.9	271.0	326.7	369.9	387.1
67.5°	216.3	243.7	302.8	346.0	363.0
70°	181.0	215.1	276.7	319.8	336.9
72.5°	148.0	185.5	249.3	291.5	307.4
75°	116.0	158.2	220.9	258.4	266.4
77.5°	86.6	130.8	191.2	207.2	201.5
80°	61.5	104.8	149.1	141.1	144.5
82.5°	39.9	79.7	92.3	104.8	108.0
85°	22.8	46.7	56.9	61.5	63.8
87.5°	10.2	17.1	22.8	22.8	21.7
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)