

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: P881185

Luminaire Tested: **24CZ2-40VHE-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: P881185
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: 24CZ2-40VHE-RDP-UNV-B35
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

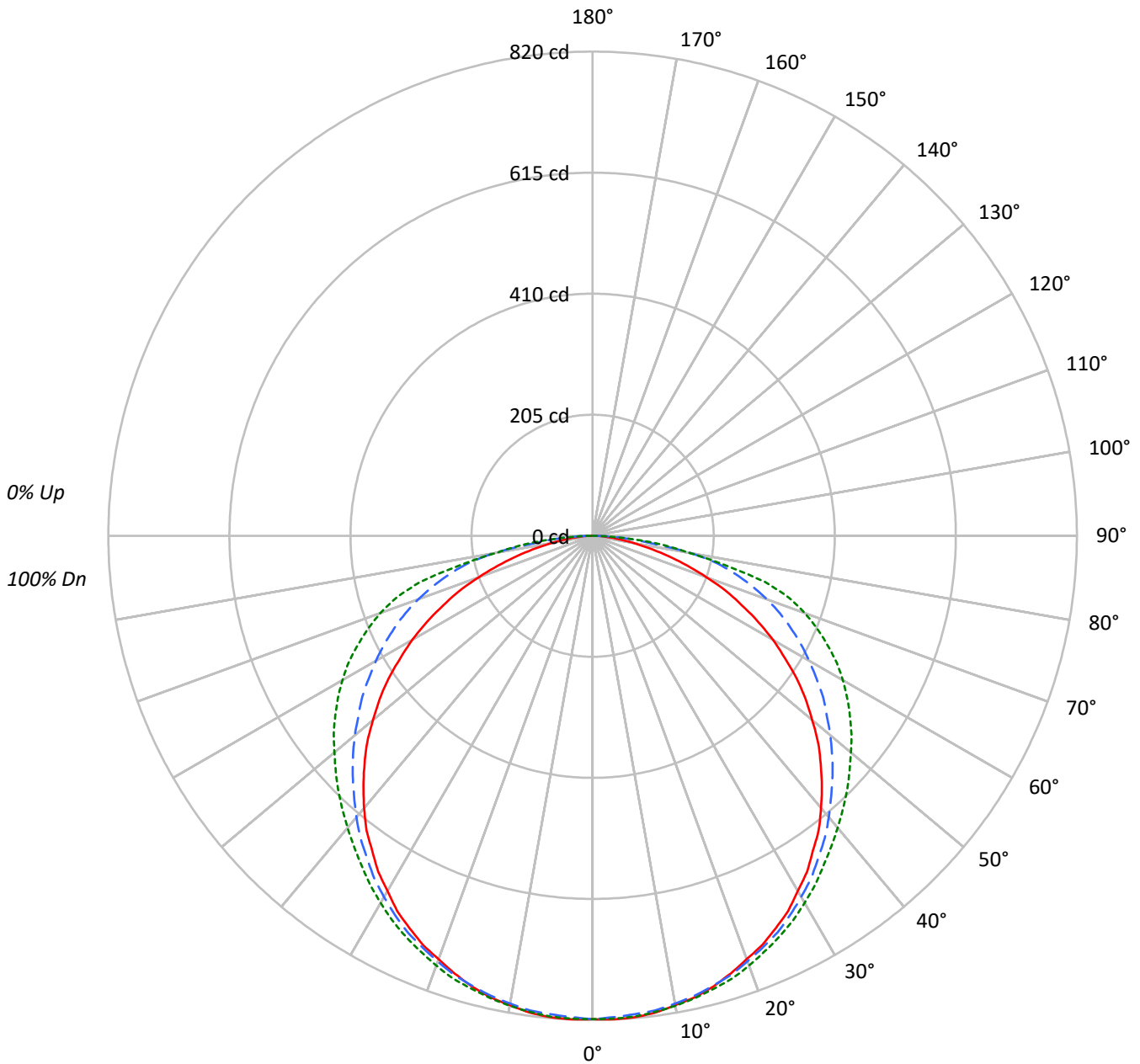
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2603.0 lumens
Efficiency: N/A
Efficacy: 86.8 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): 30
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: P881185
CATALOG NUMBER: 24CZ2-40VHE-RDP-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P881185

CATALOG NUMBER: 24CZ2-40VHE-RDP-UNV-B35

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	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°	1155	1155	1155
5°	1160	1152	1158
10°	1157	1153	1158
15°	1154	1153	1160
20°	1146	1152	1164
25°	1142	1154	1166
30°	1132	1151	1170
35°	1121	1148	1175
40°	1109	1147	1189
45°	1090	1147	1216
50°	1066	1154	1253
55°	1039	1172	1309
60°	995	1195	1381
65°	931	1237	1466
70°	847	1295	1577
75°	718	1366	1648
80°	566	1374	1332
85°	418	1046	1172



TEST NUMBER: P881185

CATALOG NUMBER: 24CZ2-40VHE-RDP-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.0
10°-20°	223.5	8.6
20°-30°	341.7	13.1
30°-40°	417.7	16.0
40°-50°	445.3	17.1
50°-60°	425.7	16.4
60°-70°	360.6	13.9
70°-80°	242.4	9.3
80°-90°	68.4	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°	642.9	24.7
0°-40°	1060.6	40.7
0°-60°	1931.6	74.2
0°-90°	2603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	819	817	813	817	817	78
15°	790	790	789	795	794	223
25°	733	736	741	748	749	338
35°	651	656	666	679	682	408
45°	546	555	574	599	609	421
55°	422	438	476	514	532	376
65°	279	307	370	420	439	277
75°	132	179	250	293	302	141
85°	26	53	65	70	72	32
90°	0	0	0	0	0	



TEST NUMBER: P881185

CATALOG NUMBER: 24CZ2-40VHE-RDP-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.6	818.6	818.6	818.6	818.6
2.5°	819.9	819.9	816.0	818.6	818.6
5°	818.6	817.4	813.4	817.4	817.4
7.5°	814.7	813.4	810.8	814.7	813.4
10°	807.0	807.0	804.4	808.3	808.3
12.5°	800.5	799.2	797.9	803.1	801.8
15°	790.1	790.1	788.9	795.3	794.0
17.5°	777.3	778.5	779.9	785.1	786.3
20°	763.0	765.7	766.9	774.7	774.7
22.5°	750.2	751.4	754.1	761.8	761.8
25°	733.4	735.9	741.1	747.5	748.9
27.5°	716.5	717.9	724.3	733.4	734.6
30°	694.6	698.5	706.3	716.5	717.9
32.5°	675.3	679.0	688.1	698.5	701.1
35°	650.7	655.9	666.2	679.0	681.7
37.5°	628.7	632.5	645.5	659.8	663.5
40°	601.8	609.3	622.3	639.1	645.5
42.5°	574.5	582.3	597.9	619.7	627.4
45°	546.2	555.2	574.5	599.1	609.3
47.5°	517.8	528.1	550.1	578.4	590.0
50°	485.4	498.4	525.5	557.8	570.7
52.5°	454.5	470.0	499.6	535.8	552.6
55°	422.1	437.6	476.4	513.9	531.9
57.5°	386.0	406.6	449.3	492.0	511.2
60°	352.5	371.8	423.5	470.0	489.3
62.5°	316.3	342.2	397.6	446.7	466.1
65°	278.9	307.4	370.5	419.6	439.0
67.5°	245.3	276.4	343.4	392.5	411.8
70°	205.3	244.0	313.8	362.7	382.1
72.5°	167.8	210.4	282.8	330.6	348.6
75°	131.6	179.4	250.5	293.1	302.2
77.5°	98.2	148.4	216.9	235.0	228.6
80°	69.7	118.9	169.1	160.0	163.9
82.5°	45.3	90.4	104.6	118.9	122.5
85°	25.8	53.0	64.6	69.7	72.4
87.5°	11.6	19.4	25.8	25.8	24.6
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)