

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: P880857

Luminaire Tested: **24CZ2-40VHE-RDP-B2750-W2D-2700K**

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: P880857
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-B2750-W2D-2700K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

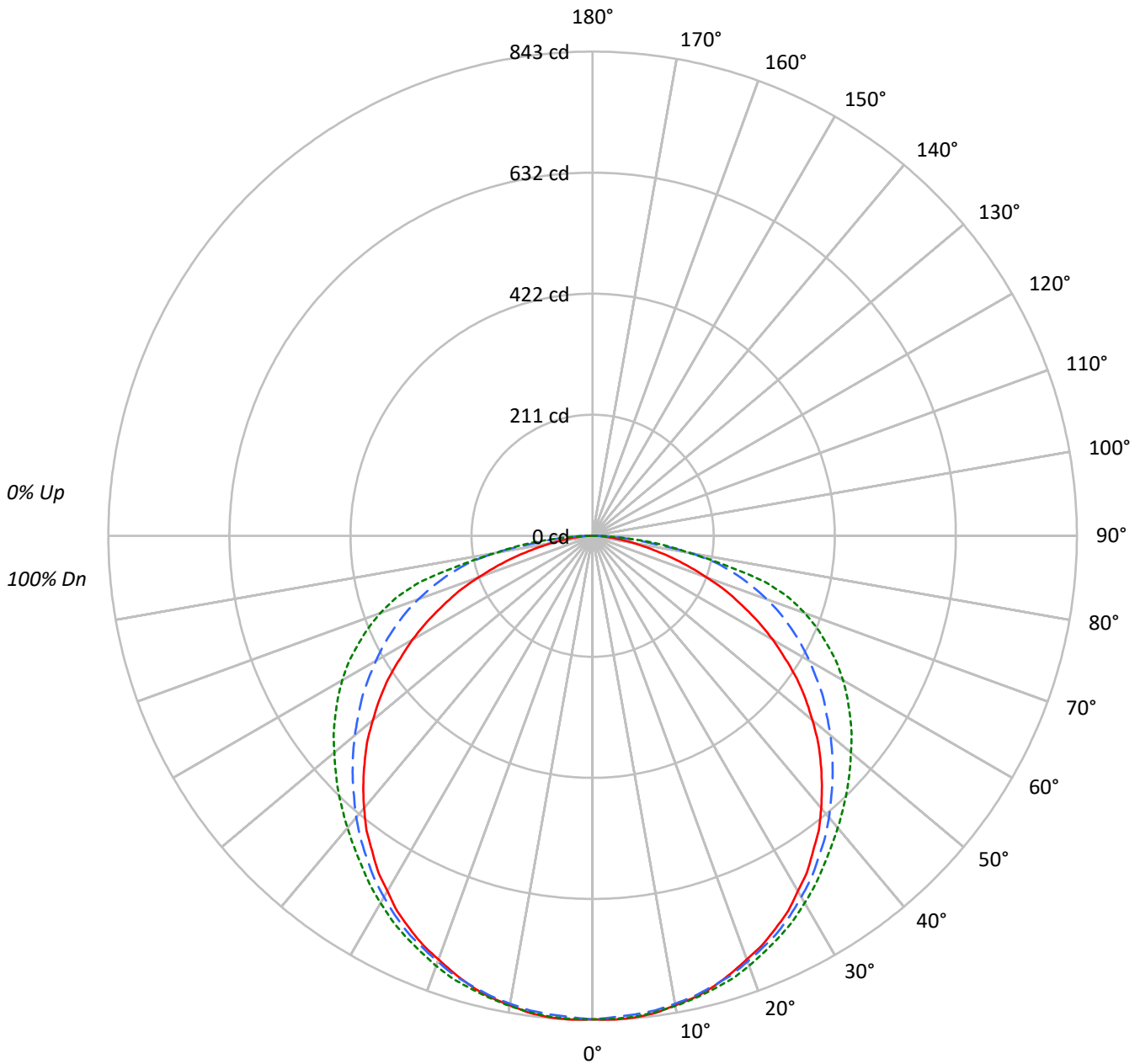
Lumens per Lamp: N/A
Luminaire Lumens: 2677.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P880857

CATALOG NUMBER: 24CZ2-40VHE-RDP-B2750-W2D-2700K

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°	1188	1188	1188
5°	1193	1185	1191
10°	1189	1185	1191
15°	1187	1185	1193
20°	1179	1185	1197
25°	1174	1187	1199
30°	1164	1184	1203
35°	1153	1180	1208
40°	1140	1179	1223
45°	1121	1179	1251
50°	1096	1187	1289
55°	1068	1206	1346
60°	1023	1229	1420
65°	958	1273	1508
70°	871	1332	1622
75°	738	1405	1695
80°	583	1413	1370
85°	431	1075	1205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.0
10°-20°	229.8	8.6
20°-30°	351.5	13.1
30°-40°	429.6	16.0
40°-50°	457.9	17.1
50°-60°	437.8	16.4
60°-70°	370.9	13.9
70°-80°	249.3	9.3
80°-90°	70.3	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°	661.1	24.7
0°-40°	1090.8	40.7
0°-60°	1986.5	74.2
0°-90°	2677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	842	841	837	841	841	80
15°	813	813	811	818	817	229
25°	754	757	762	769	770	348
35°	669	674	685	698	701	419
45°	562	571	591	616	627	433
55°	434	450	490	528	547	387
65°	287	316	381	432	452	285
75°	135	184	258	302	311	145
85°	27	54	66	72	74	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	841.9	841.9	841.9	841.9	841.9
2.5°	843.2	843.2	839.2	841.9	841.9
5°	841.9	840.6	836.6	840.6	840.6
7.5°	837.9	836.6	833.8	837.9	836.6
10°	830.0	830.0	827.2	831.3	831.3
12.5°	823.2	821.9	820.6	825.9	824.6
15°	812.6	812.6	811.3	817.9	816.6
17.5°	799.4	800.7	802.1	807.4	808.7
20°	784.7	787.4	788.7	796.8	796.8
22.5°	771.5	772.8	775.5	783.4	783.4
25°	754.2	756.8	762.1	768.8	770.2
27.5°	736.9	738.3	744.9	754.2	755.5
30°	714.3	718.3	726.4	736.9	738.3
32.5°	694.5	698.4	707.7	718.3	721.0
35°	669.2	674.5	685.1	698.4	701.1
37.5°	646.6	650.5	663.9	678.5	682.4
40°	618.9	626.7	640.0	657.3	663.9
42.5°	590.9	598.9	614.9	637.3	645.2
45°	561.7	571.0	590.9	616.1	626.7
47.5°	532.5	543.1	565.7	594.9	606.8
50°	499.2	512.5	540.4	573.6	587.0
52.5°	467.4	483.4	513.8	551.1	568.3
55°	434.1	450.1	490.0	528.5	547.0
57.5°	397.0	418.2	462.1	505.9	525.8
60°	362.5	382.4	435.5	483.4	503.2
62.5°	325.3	351.9	409.0	459.4	479.4
65°	286.8	316.1	381.1	431.5	451.5
67.5°	252.3	284.2	353.2	403.6	423.5
70°	211.1	250.9	322.7	373.0	393.0
72.5°	172.6	216.4	290.8	340.0	358.5
75°	135.4	184.5	257.6	301.5	310.8
77.5°	101.0	152.6	223.0	241.7	235.1
80°	71.7	122.3	173.9	164.5	168.6
82.5°	46.5	93.0	107.6	122.3	126.0
85°	26.6	54.5	66.4	71.7	74.4
87.5°	11.9	20.0	26.6	26.6	25.3
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)