

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: P880858

Luminaire Tested: **24CZ2-40VHE-RDP-B2750-W2D-3000K**

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: P880858
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-3000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

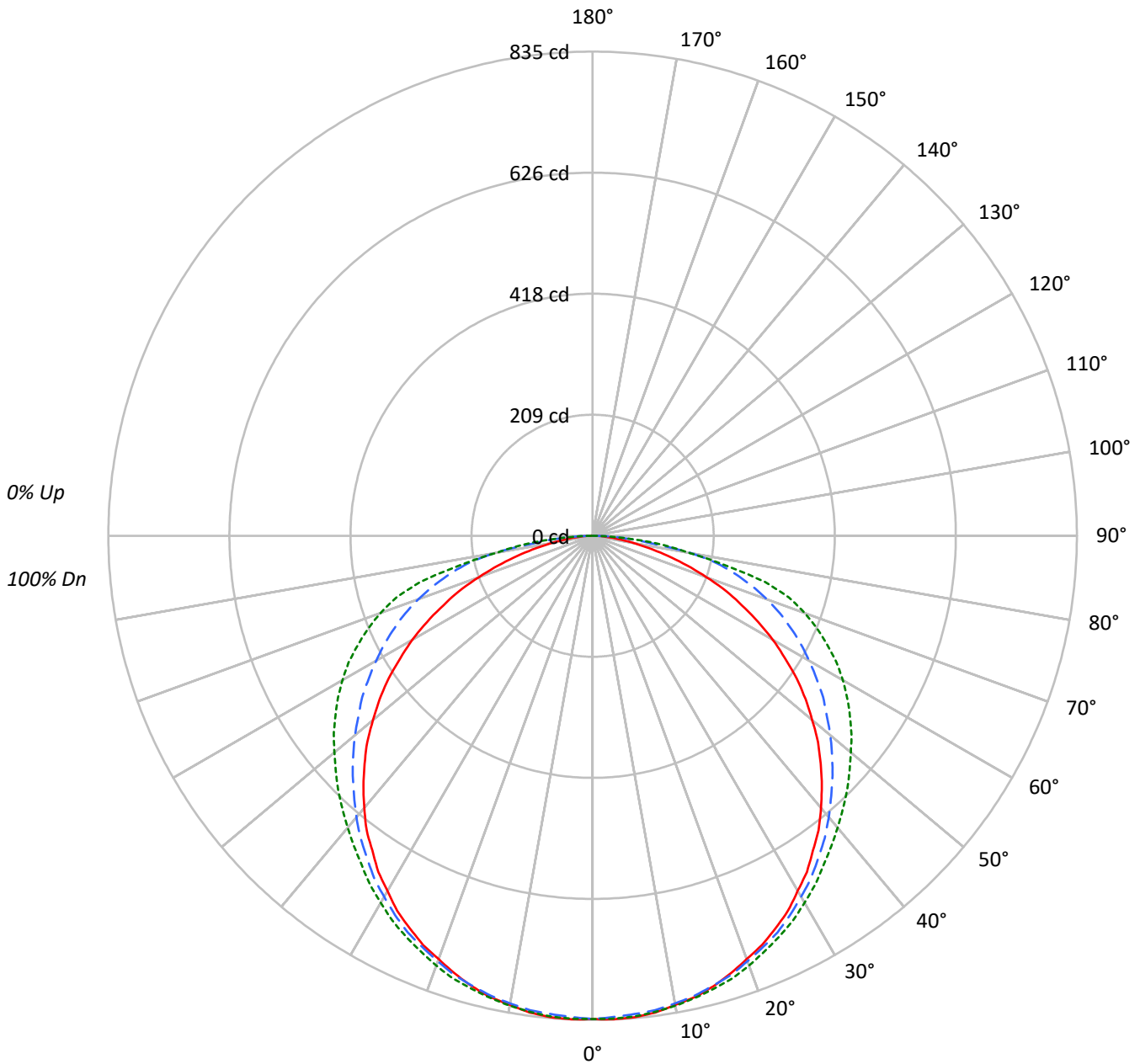
Lumens per Lamp: N/A
Luminaire Lumens: 2650.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P880858

CATALOG NUMBER: 24CZ2-40VHE-RDP-B2750-W2D-3000K

Luminous Intensity Polar Plot





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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°	1176	1176	1176
5°	1181	1173	1179
10°	1177	1174	1179
15°	1175	1173	1181
20°	1167	1173	1185
25°	1163	1175	1187
30°	1152	1172	1191
35°	1141	1168	1196
40°	1129	1167	1211
45°	1110	1167	1238
50°	1085	1175	1276
55°	1057	1193	1332
60°	1013	1217	1406
65°	948	1260	1492
70°	862	1318	1605
75°	731	1391	1678
80°	577	1399	1356
85°	426	1064	1193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.0
10°-20°	227.5	8.6
20°-30°	347.9	13.1
30°-40°	425.3	16.0
40°-50°	453.3	17.1
50°-60°	433.4	16.4
60°-70°	367.2	13.9
70°-80°	246.8	9.3
80°-90°	69.6	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°	654.5	24.7
0°-40°	1079.8	40.7
0°-60°	1966.5	74.2
0°-90°	2650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	833	832	828	832	832	79
15°	804	804	803	810	808	227
25°	747	749	754	761	762	344
35°	662	668	678	691	694	415
45°	556	565	585	610	620	429
55°	430	446	485	523	542	383
65°	284	313	377	427	447	282
75°	134	183	255	298	308	144
85°	26	54	66	71	74	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.4	833.4	833.4	833.4	833.4
2.5°	834.7	834.7	830.7	833.4	833.4
5°	833.4	832.1	828.1	832.1	832.1
7.5°	829.4	828.1	825.4	829.4	828.1
10°	821.6	821.6	818.9	822.9	822.9
12.5°	814.9	813.6	812.3	817.6	816.3
15°	804.4	804.4	803.1	809.7	808.4
17.5°	791.3	792.6	794.0	799.3	800.5
20°	776.8	779.5	780.8	788.7	788.7
22.5°	763.7	765.0	767.7	775.5	775.5
25°	746.6	749.2	754.5	761.0	762.4
27.5°	729.4	730.8	737.4	746.6	747.9
30°	707.1	711.1	719.0	729.4	730.8
32.5°	687.5	691.3	700.6	711.1	713.8
35°	662.4	667.7	678.2	691.3	694.0
37.5°	640.1	643.9	657.2	671.7	675.5
40°	612.6	620.3	633.6	650.6	657.2
42.5°	584.9	592.9	608.7	630.9	638.7
45°	556.0	565.3	584.9	609.9	620.3
47.5°	527.1	537.7	560.0	588.9	600.7
50°	494.2	507.4	535.0	567.8	581.1
52.5°	462.7	478.5	508.7	545.5	562.6
55°	429.7	445.5	485.0	523.2	541.5
57.5°	393.0	413.9	457.5	500.8	520.5
60°	358.9	378.5	431.1	478.5	498.1
62.5°	322.0	348.4	404.8	454.8	474.5
65°	283.9	312.9	377.2	427.2	446.9
67.5°	249.8	281.4	349.6	399.6	419.2
70°	209.0	248.4	319.5	369.3	389.0
72.5°	170.8	214.2	287.9	336.5	354.9
75°	134.0	182.6	255.0	298.4	307.7
77.5°	100.0	151.1	220.8	239.3	232.7
80°	71.0	121.0	172.1	162.9	166.9
82.5°	46.1	92.0	106.5	121.0	124.8
85°	26.3	53.9	65.7	71.0	73.7
87.5°	11.8	19.8	26.3	26.3	25.0
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)