

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: P880847

Luminaire Tested: **24CZ2-40VHE-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: P880847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40VHE-B2750-W2D-2700K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

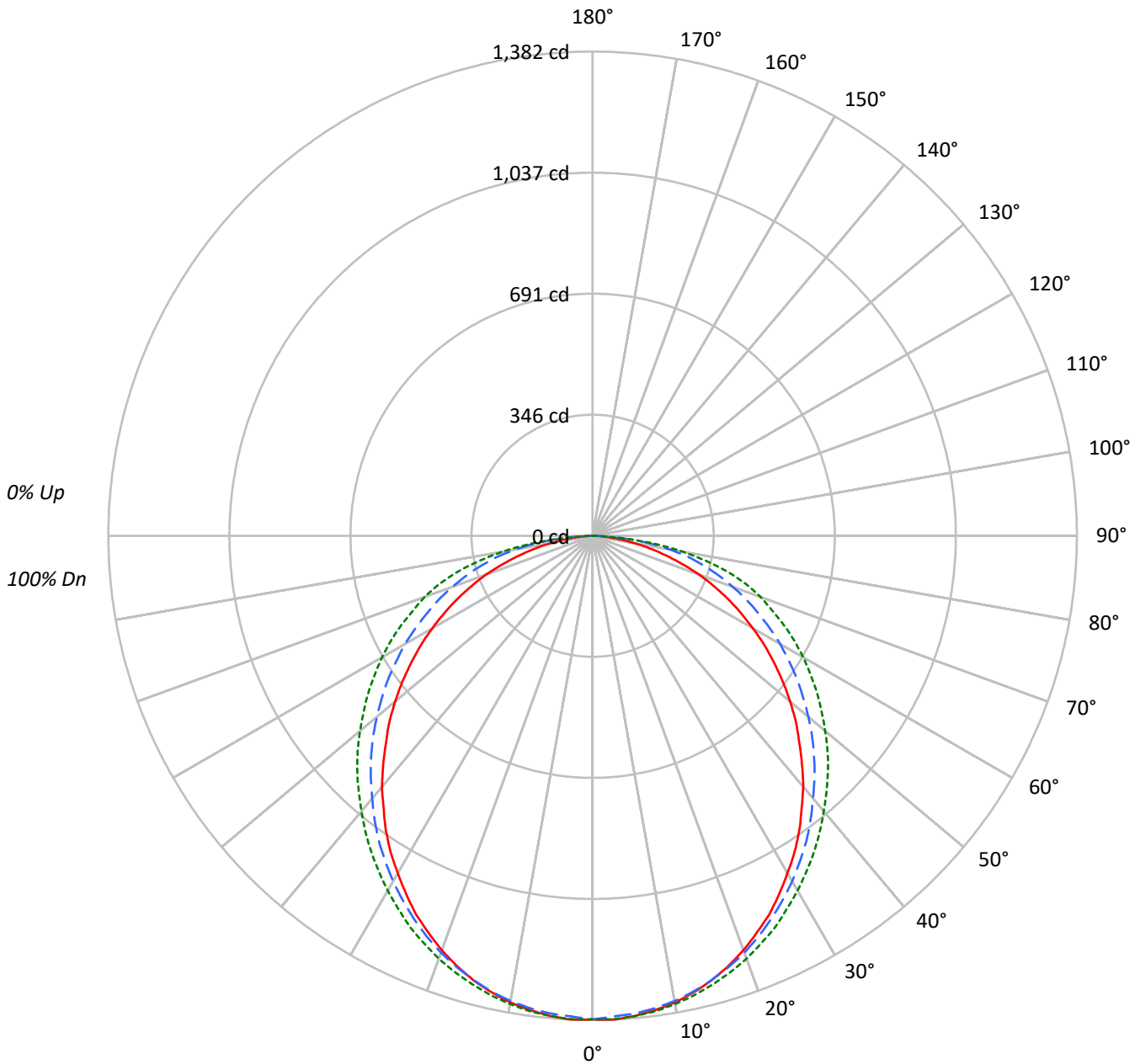
Lumens per Lamp: N/A
Luminaire Lumens: 3995.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83				83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68				68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57				57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48				48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42				42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37				37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32				32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29				29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26				26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1949	1939	1949
10°	1939	1932	1945
15°	1919	1918	1937
20°	1890	1902	1929
25°	1857	1878	1920
30°	1812	1856	1906
35°	1772	1833	1898
40°	1723	1803	1891
45°	1664	1784	1896
50°	1614	1764	1902
55°	1555	1752	1923
60°	1490	1744	1959
65°	1420	1738	2009
70°	1337	1755	2101
75°	1176	1791	2186
80°	982	1804	2108
85°	701	1546	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.3
10°-20°	371.7	9.3
20°-30°	557.7	14.0
30°-40°	665.8	16.7
40°-50°	689.6	17.3
50°-60°	634.9	15.9
60°-70°	512.1	12.8
70°-80°	334.6	8.4
80°-90°	98.1	2.5
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°	1059.9	26.5
0°-40°	1725.7	43.2
0°-60°	3050.2	76.3
0°-90°	3995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1376	1375	1369	1377	1376	131
15°	1313	1313	1313	1326	1326	370
25°	1193	1195	1206	1228	1233	548
35°	1028	1037	1064	1093	1102	642
45°	834	855	894	934	950	645
55°	632	659	712	764	782	565
65°	425	454	520	580	602	421
75°	216	256	328	385	401	230
85°	43	75	96	101	97	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.5	1380.5	1380.5	1380.5	1380.5
2.5°	1382.4	1380.5	1373.4	1381.8	1381.1
5°	1376.0	1374.7	1368.9	1376.6	1376.0
7.5°	1365.7	1365.0	1360.5	1368.9	1368.9
10°	1352.8	1351.5	1348.3	1357.9	1357.3
12.5°	1334.7	1334.1	1332.2	1343.8	1343.1
15°	1313.3	1313.3	1312.7	1325.7	1325.7
17.5°	1287.6	1288.2	1290.8	1305.6	1306.3
20°	1258.6	1261.2	1266.3	1283.1	1284.4
22.5°	1225.6	1230.7	1237.8	1256.6	1258.6
25°	1192.7	1195.3	1206.3	1228.2	1232.7
27.5°	1152.6	1159.2	1173.4	1195.9	1200.5
30°	1112.0	1121.1	1139.1	1162.4	1169.5
32.5°	1072.0	1079.8	1101.1	1127.5	1135.9
35°	1028.2	1037.2	1063.6	1092.7	1101.7
37.5°	979.7	993.9	1021.7	1055.2	1064.9
40°	935.2	948.1	978.4	1015.9	1026.2
42.5°	884.2	900.3	937.2	975.2	988.1
45°	833.8	854.6	893.9	933.9	950.1
47.5°	786.8	803.5	850.0	895.2	909.3
50°	735.1	754.4	803.5	851.3	866.2
52.5°	684.2	707.4	757.0	807.4	823.5
55°	631.9	658.9	711.9	764.2	781.6
57.5°	581.5	608.7	663.4	719.0	737.0
60°	528.0	557.0	617.7	671.2	693.9
62.5°	476.3	505.3	569.2	627.4	648.6
65°	425.3	454.4	520.3	579.5	601.6
67.5°	372.4	404.0	474.4	531.9	553.1
70°	324.0	354.3	425.3	486.6	509.2
72.5°	268.4	304.7	377.0	437.5	458.9
75°	215.6	256.2	328.5	385.3	400.8
77.5°	166.5	207.2	279.4	322.1	331.7
80°	120.8	162.0	222.0	251.7	259.4
82.5°	78.1	120.8	160.7	180.7	183.3
85°	43.3	74.9	95.5	101.3	96.8
87.5°	15.5	28.4	27.7	22.6	18.0
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)