

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: P880848

Luminaire Tested: **24CZ2-40VHE-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: P880848
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-3000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

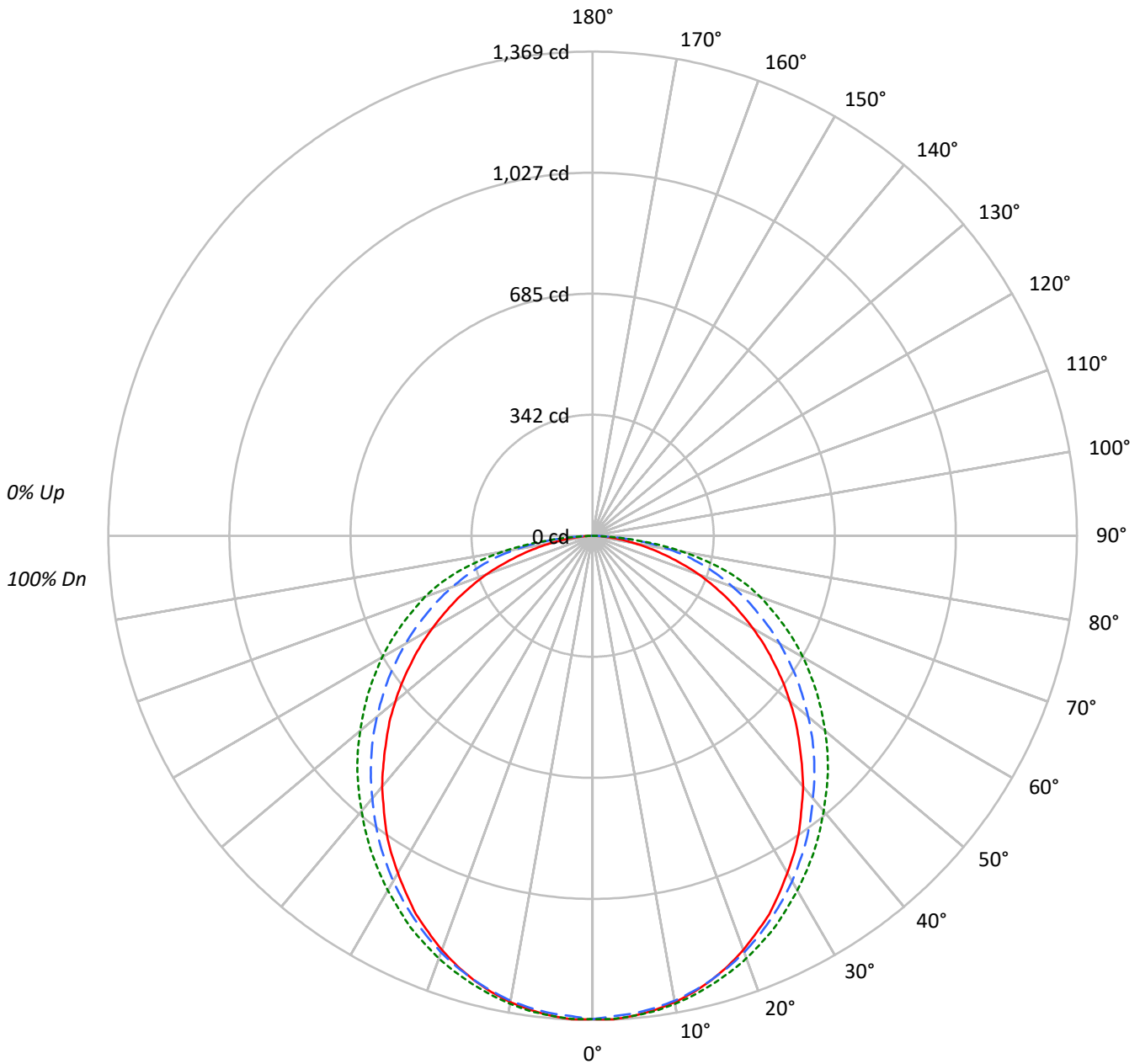
Lumens per Lamp: N/A
Luminaire Lumens: 3955.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1929	1929	1929
5°	1930	1920	1930
10°	1919	1913	1926
15°	1900	1899	1918
20°	1871	1883	1910
25°	1839	1860	1900
30°	1794	1838	1887
35°	1754	1814	1879
40°	1706	1785	1872
45°	1648	1766	1877
50°	1598	1747	1883
55°	1539	1734	1904
60°	1475	1726	1939
65°	1406	1720	1989
70°	1323	1737	2080
75°	1164	1773	2164
80°	971	1786	2087
85°	695	1530	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.3
10°-20°	368.0	9.3
20°-30°	552.1	14.0
30°-40°	659.1	16.7
40°-50°	682.7	17.3
50°-60°	628.5	15.9
60°-70°	507.0	12.8
70°-80°	331.3	8.4
80°-90°	97.1	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°	1049.3	26.5
0°-40°	1708.4	43.2
0°-60°	3019.6	76.3
0°-90°	3955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1362	1361	1355	1363	1362	129
15°	1300	1300	1300	1312	1312	366
25°	1181	1183	1194	1216	1220	543
35°	1018	1027	1053	1082	1091	636
45°	826	846	885	925	940	638
55°	626	652	705	757	774	560
65°	421	450	515	574	596	416
75°	213	254	325	382	397	228
85°	43	74	94	100	96	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1368.6	1366.7	1359.7	1367.9	1367.3
5°	1362.2	1360.9	1355.2	1362.8	1362.2
7.5°	1352.0	1351.4	1346.9	1355.2	1355.2
10°	1339.2	1338.0	1334.8	1344.3	1343.7
12.5°	1321.4	1320.7	1318.8	1330.3	1329.7
15°	1300.2	1300.2	1299.6	1312.4	1312.4
17.5°	1274.7	1275.3	1277.9	1292.5	1293.2
20°	1246.0	1248.5	1253.6	1270.2	1271.5
22.5°	1213.3	1218.4	1225.4	1244.1	1246.0
25°	1180.8	1183.3	1194.2	1215.9	1220.3
27.5°	1141.1	1147.6	1161.6	1184.0	1188.4
30°	1100.9	1109.8	1127.7	1150.8	1157.8
32.5°	1061.2	1069.0	1090.1	1116.2	1124.5
35°	1017.9	1026.8	1052.9	1081.8	1090.7
37.5°	969.9	983.9	1011.5	1044.7	1054.2
40°	925.9	938.6	968.6	1005.7	1015.9
42.5°	875.3	891.3	927.8	965.4	978.2
45°	825.5	846.0	884.9	924.6	940.5
47.5°	778.9	795.5	841.5	886.2	900.2
50°	727.7	746.9	795.5	842.8	857.5
52.5°	677.3	700.3	749.4	799.3	815.3
55°	625.5	652.3	704.8	756.6	773.8
57.5°	575.7	602.6	656.8	711.8	729.6
60°	522.7	551.4	611.5	664.5	686.9
62.5°	471.5	500.3	563.5	621.1	642.1
65°	421.0	449.9	515.1	573.7	595.6
67.5°	368.7	400.0	469.6	526.5	547.6
70°	320.7	350.7	421.0	481.8	504.1
72.5°	265.8	301.6	373.2	433.1	454.3
75°	213.4	253.6	325.2	381.5	396.8
77.5°	164.8	205.2	276.6	318.8	328.4
80°	119.5	160.4	219.8	249.2	256.8
82.5°	77.3	119.5	159.1	178.9	181.4
85°	42.9	74.1	94.5	100.3	95.8
87.5°	15.3	28.1	27.4	22.3	17.9
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)