

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: P732187

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-B2750-W2D-3000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

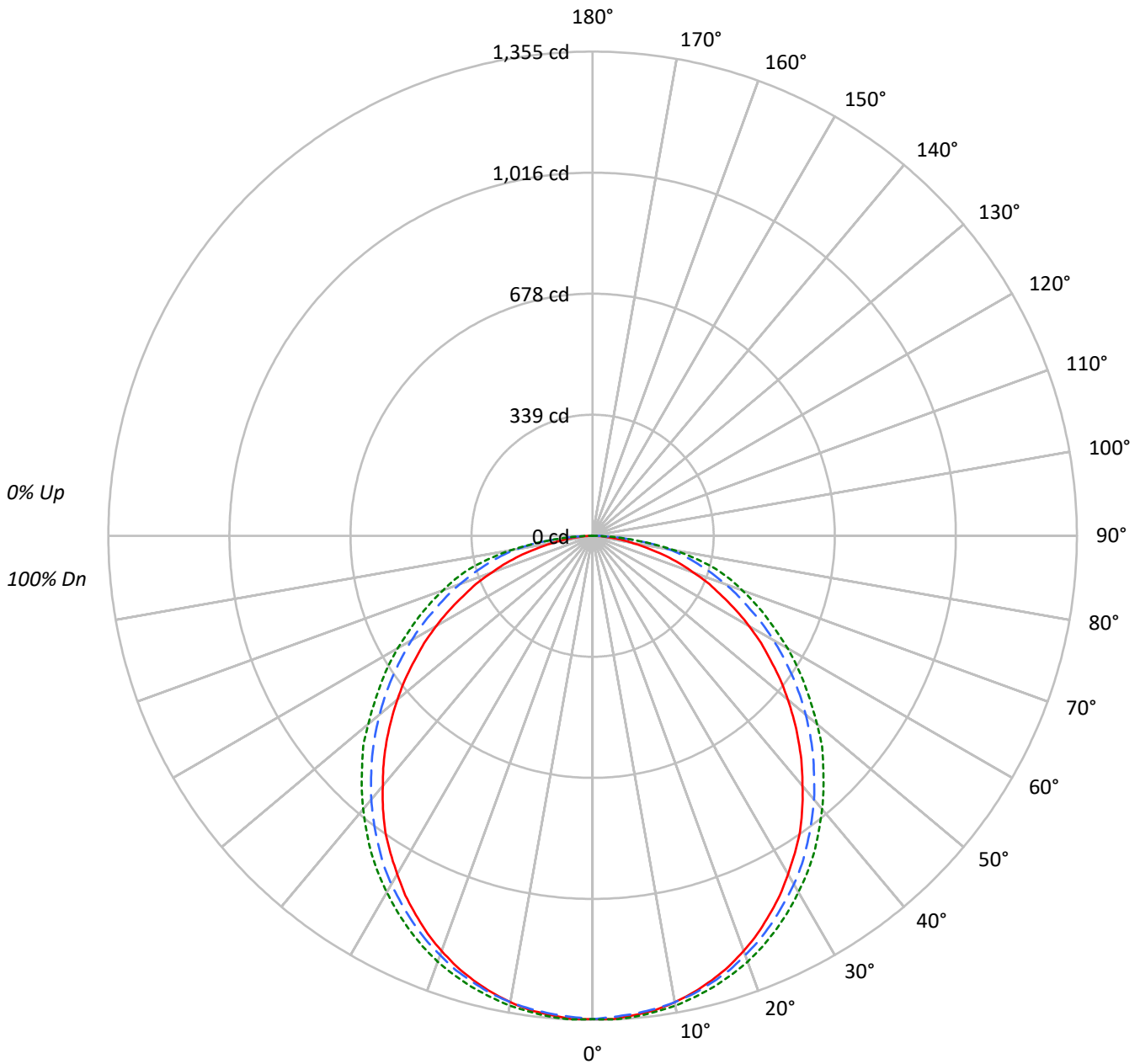
Lumens per Lamp: N/A
Luminaire Lumens: 3850.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): 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	106	101	97	93	97	93	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29								
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26								
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1909	1909	1909
5°	1907	1902	1914
10°	1900	1900	1914
15°	1882	1890	1910
20°	1857	1875	1905
25°	1822	1857	1893
30°	1782	1836	1877
35°	1743	1806	1862
40°	1683	1775	1841
45°	1628	1740	1821
50°	1566	1708	1799
55°	1496	1676	1781
60°	1426	1650	1777
65°	1335	1621	1789
70°	1236	1630	1837
75°	1107	1661	1940
80°	895	1759	1898
85°	674	1543	1506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.3
10°-20°	365.9	9.5
20°-30°	550.0	14.3
30°-40°	655.1	17.0
40°-50°	670.5	17.4
50°-60°	603.6	15.7
60°-70°	474.1	12.3
70°-80°	307.7	8.0
80°-90°	95.2	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°	1043.9	27.1
0°-40°	1699.0	44.1
0°-60°	2973.1	77.2
0°-90°	3850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1346	1349	1343	1350	1351	128
15°	1288	1291	1294	1305	1307	363
25°	1170	1180	1192	1212	1216	539
35°	1011	1024	1048	1074	1081	631
45°	816	835	872	905	912	629
55°	608	635	681	717	724	545
65°	400	430	486	526	536	398
75°	203	242	305	346	356	215
85°	42	77	95	93	93	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.6	1352.6	1352.6	1352.6	1352.6
2.5°	1353.8	1353.8	1347.6	1353.8	1355.0
5°	1346.4	1348.9	1342.7	1350.1	1351.3
7.5°	1339.0	1339.0	1335.4	1342.7	1344.0
10°	1325.6	1326.8	1325.6	1334.2	1335.4
12.5°	1308.5	1310.9	1312.2	1320.8	1321.9
15°	1287.8	1291.4	1293.8	1304.9	1307.4
17.5°	1264.5	1268.2	1274.2	1286.4	1288.9
20°	1236.3	1241.2	1248.6	1264.5	1268.2
22.5°	1205.8	1210.7	1222.9	1237.5	1243.7
25°	1170.3	1180.1	1192.3	1211.9	1215.6
27.5°	1134.8	1143.4	1159.3	1180.1	1185.1
30°	1093.3	1106.7	1126.3	1147.1	1151.9
32.5°	1052.9	1066.3	1089.6	1111.7	1117.7
35°	1011.4	1023.6	1048.0	1073.7	1081.0
37.5°	963.6	979.5	1006.5	1032.1	1039.5
40°	913.5	933.1	963.6	990.6	999.1
42.5°	865.8	886.6	917.2	946.5	956.2
45°	815.7	835.3	872.0	905.0	912.3
47.5°	764.3	786.4	825.4	858.4	870.6
50°	713.0	736.3	777.8	812.0	819.4
52.5°	661.6	686.0	730.1	766.8	770.4
55°	607.8	634.7	681.2	716.7	724.0
57.5°	558.9	582.1	632.2	668.9	677.5
60°	505.1	530.7	584.5	618.8	629.7
62.5°	453.7	480.6	536.9	571.1	580.8
65°	399.9	430.5	485.5	525.9	535.6
67.5°	353.5	382.8	441.4	480.6	490.4
70°	299.5	332.7	395.0	435.4	445.1
72.5°	253.1	287.3	349.8	388.8	403.6
75°	203.0	242.1	304.6	346.1	355.8
77.5°	154.1	199.4	262.9	294.7	294.7
80°	110.1	157.8	216.4	231.2	233.5
82.5°	72.2	118.6	160.2	159.0	159.0
85°	41.6	77.1	95.3	93.0	93.0
87.5°	15.9	31.8	34.2	34.2	33.0
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)