

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: P732201

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732201
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-S-B2750-W2D-2700K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

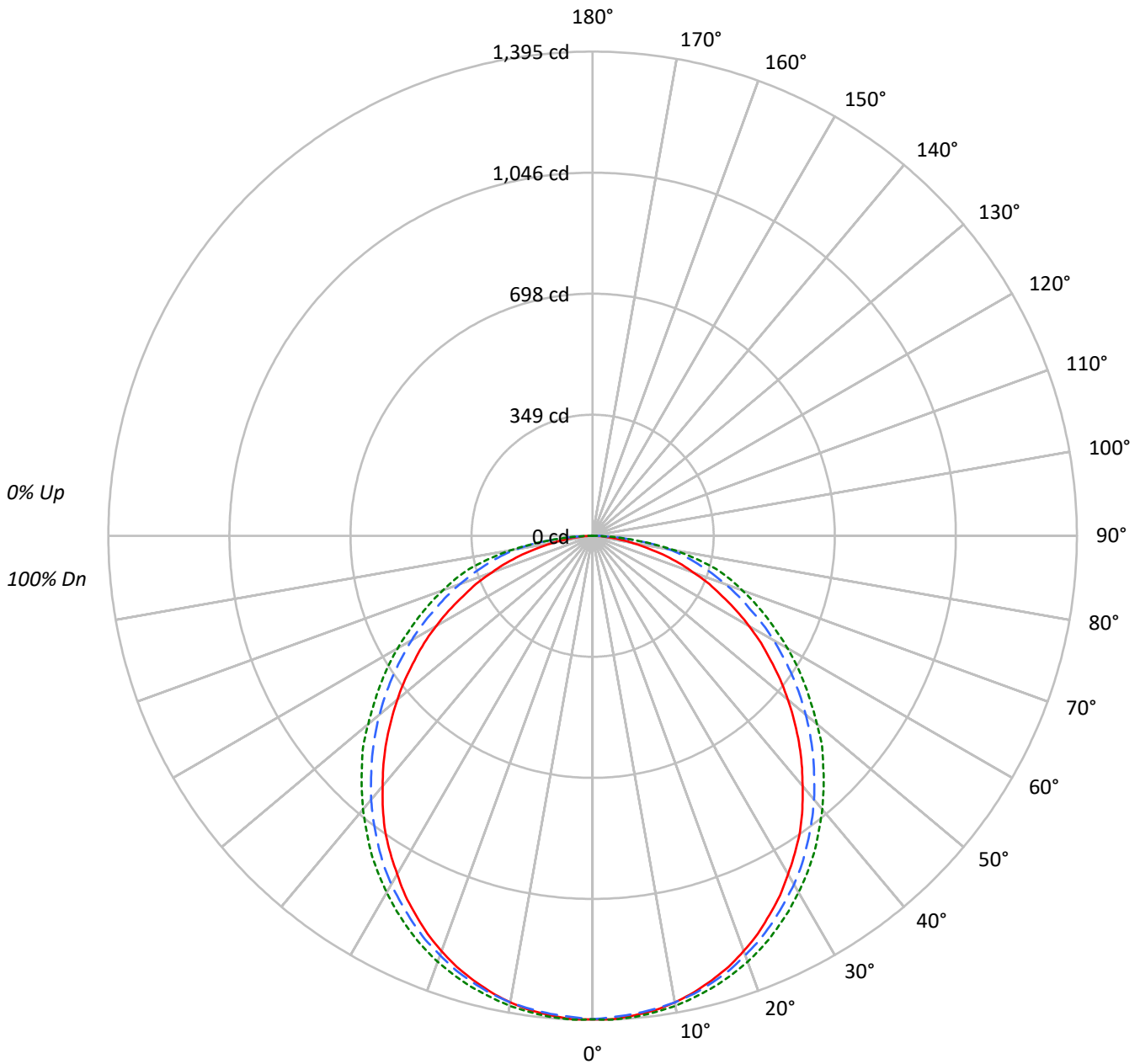
Lumens per Lamp: N/A
Luminaire Lumens: 3965.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1966	1966	1966
5°	1964	1959	1972
10°	1956	1956	1971
15°	1938	1947	1967
20°	1912	1931	1962
25°	1877	1912	1950
30°	1835	1890	1933
35°	1795	1860	1918
40°	1733	1828	1896
45°	1677	1792	1875
50°	1612	1759	1853
55°	1540	1726	1835
60°	1468	1699	1831
65°	1375	1670	1842
70°	1273	1679	1892
75°	1140	1711	1999
80°	922	1812	1955
85°	693	1590	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.3
10°-20°	376.8	9.5
20°-30°	566.4	14.3
30°-40°	674.7	17.0
40°-50°	690.5	17.4
50°-60°	621.7	15.7
60°-70°	488.2	12.3
70°-80°	316.8	8.0
80°-90°	98.0	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°	1075.1	27.1
0°-40°	1749.8	44.1
0°-60°	3061.9	77.2
0°-90°	3965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1387	1389	1383	1390	1392	132
15°	1326	1330	1332	1344	1346	374
25°	1205	1215	1228	1248	1252	555
35°	1042	1054	1079	1106	1113	650
45°	840	860	898	932	940	648
55°	626	654	702	738	746	561
65°	412	443	500	542	552	410
75°	209	249	314	356	366	221
85°	43	79	98	96	96	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.0	1393.0	1393.0	1393.0	<i>1393.0</i>
2.5°	<i>1394.2</i>	<i>1394.2</i>	<i>1387.8</i>	<i>1394.2</i>	<i>1395.4</i>
5°	1386.6	1389.2	1382.8	1390.4	<i>1391.6</i>
7.5°	1379.0	1379.0	1375.2	1382.8	<i>1384.2</i>
10°	1365.2	1366.4	1365.2	1374.0	<i>1375.2</i>
12.5°	1347.6	1350.1	1351.4	1360.2	<i>1361.4</i>
15°	1326.2	1330.0	1332.5	1343.8	<i>1346.4</i>
17.5°	1302.3	1306.0	1312.3	1324.9	<i>1327.4</i>
20°	1273.3	1278.3	1285.9	1302.3	<i>1306.0</i>
22.5°	1241.9	1246.9	1259.5	1274.5	<i>1280.9</i>
25°	1205.3	1215.3	1227.9	1248.1	<i>1251.9</i>
27.5°	1168.7	1177.5	1193.9	1215.3	<i>1220.5</i>
30°	1125.9	1139.7	1159.9	1181.3	<i>1186.3</i>
32.5°	1084.4	1098.2	1122.1	1144.9	<i>1151.1</i>
35°	1041.6	1054.2	1079.3	1105.7	<i>1113.3</i>
37.5°	992.4	1008.8	1036.6	1063.0	<i>1070.5</i>
40°	940.8	961.0	992.4	1020.2	<i>1029.0</i>
42.5°	891.6	913.0	944.6	974.8	<i>984.8</i>
45°	840.0	860.2	898.0	932.0	<i>939.6</i>
47.5°	787.1	809.8	850.1	884.1	<i>896.6</i>
50°	734.3	758.3	801.0	836.3	<i>843.8</i>
52.5°	681.3	706.5	751.9	789.7	<i>793.5</i>
55°	625.9	653.7	701.5	738.1	<i>745.7</i>
57.5°	575.6	599.5	651.1	688.9	<i>697.7</i>
60°	520.2	546.6	602.0	637.3	<i>648.5</i>
62.5°	467.2	495.0	552.9	588.2	<i>598.2</i>
65°	411.8	443.4	500.0	541.6	<i>551.6</i>
67.5°	364.0	394.2	454.6	495.0	<i>505.0</i>
70°	308.5	342.6	406.8	448.4	<i>458.4</i>
72.5°	260.7	295.9	360.2	400.4	<i>415.6</i>
75°	209.1	249.3	313.7	356.4	<i>366.5</i>
77.5°	158.7	205.3	270.7	303.5	<i>303.5</i>
80°	113.4	162.5	222.9	238.1	<i>240.5</i>
82.5°	74.4	122.2	164.9	163.7	<i>163.7</i>
85°	42.8	79.4	98.2	95.7	<i>95.7</i>
87.5°	16.4	32.8	35.2	35.2	<i>34.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)