

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: P731911

Luminaire Tested: **14CZ2-44-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-B2750-W2D-2700K
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

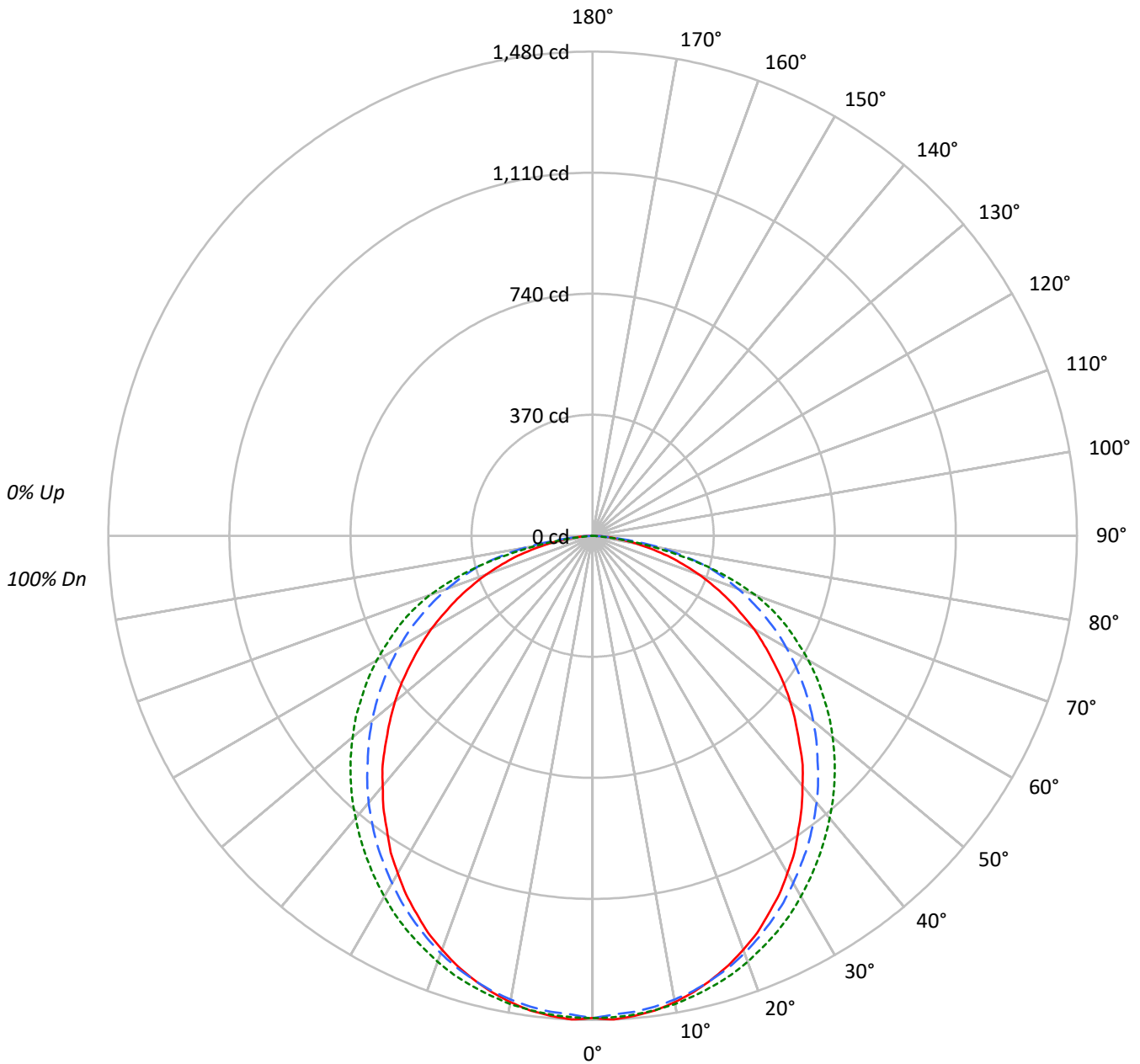
Lumens per Lamp: N/A
Luminaire Lumens: 4279.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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

TEST NUMBER: P731911

CATALOG NUMBER: 14CZ2-44-B2750-W2D-2700K

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	79	68	60	53	66	58	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37								
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4161	4161	4161
5°	4174	4139	4163
10°	4149	4127	4165
15°	4104	4107	4163
20°	4044	4079	4162
25°	3967	4038	4158
30°	3881	3997	4149
35°	3778	3962	4146
40°	3677	3924	4152
45°	3565	3881	4174
50°	3460	3863	4202
55°	3329	3851	4240
60°	3211	3857	4299
65°	3046	3868	4365
70°	2860	3898	4362
75°	2590	3934	3945
80°	2126	3394	2806
85°	1574	1606	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	3.3
10°-20°	398.5	9.3
20°-30°	600.3	14.0
30°-40°	720.3	16.8
40°-50°	750.8	17.5
50°-60°	695.1	16.2
60°-70°	561.6	13.1
70°-80°	342.4	8.0
80°-90°	70.6	1.7
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°	1138.2	26.6
0°-40°	1858.6	43.4
0°-60°	3304.4	77.2
0°-90°	4279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1473	1469	1461	1471	1469	140
15°	1404	1405	1405	1424	1424	396
25°	1274	1281	1297	1329	1335	587
35°	1096	1114	1150	1192	1203	687
45°	893	920	972	1026	1046	690
55°	676	712	782	844	862	606
65°	456	501	579	637	654	451
75°	238	290	361	366	362	250
85°	49	72	50	28	20	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.2	1474.2	1474.2	1474.2	1474.2
2.5°	1479.9	1475.2	1464.7	1475.2	1473.1
5°	1473.1	1469.4	1460.8	1471.3	1469.4
7.5°	1463.6	1459.7	1452.1	1464.7	1462.6
10°	1447.4	1445.5	1439.7	1454.2	1453.1
12.5°	1428.4	1427.4	1424.5	1440.8	1439.7
15°	1404.5	1405.3	1405.3	1424.5	1424.5
17.5°	1377.7	1379.6	1383.5	1404.5	1407.4
20°	1346.2	1350.2	1357.8	1381.7	1385.4
22.5°	1313.9	1316.8	1328.1	1356.7	1360.7
25°	1273.7	1281.3	1296.6	1329.2	1334.9
27.5°	1235.6	1242.2	1263.2	1296.6	1306.3
30°	1190.7	1201.2	1226.2	1262.4	1272.9
32.5°	1147.9	1159.2	1187.8	1229.9	1239.3
35°	1096.4	1113.5	1149.7	1191.8	1203.1
37.5°	1049.7	1065.7	1106.9	1152.6	1166.0
40°	997.9	1018.1	1064.9	1113.5	1126.9
42.5°	950.4	969.3	1020.0	1069.6	1087.8
45°	893.1	919.9	972.2	1026.5	1045.7
47.5°	840.6	867.4	927.5	985.6	1002.9
50°	788.0	816.7	879.7	939.9	956.9
52.5°	733.7	764.4	831.9	892.1	912.3
55°	676.4	711.9	782.5	843.5	861.6
57.5°	622.0	658.3	733.7	795.7	813.8
60°	568.7	606.0	683.2	742.3	761.5
62.5°	509.6	553.5	633.6	691.6	706.1
65°	456.0	500.9	579.2	637.3	653.5
67.5°	399.8	448.4	526.7	580.0	595.5
70°	346.5	396.9	472.3	521.9	528.5
72.5°	289.2	340.7	416.9	448.4	448.4
75°	237.5	290.0	360.7	366.4	361.7
77.5°	181.2	239.6	285.3	273.7	262.4
80°	130.8	188.1	208.8	188.1	172.6
82.5°	87.7	136.3	125.8	100.1	88.8
85°	48.6	72.5	49.6	27.6	20.0
87.5°	18.1	16.3	4.7	4.7	4.7
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)