

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: P731901

Luminaire Tested: **14CZ2-39-S-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-S-B2750-W2D-2700K
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

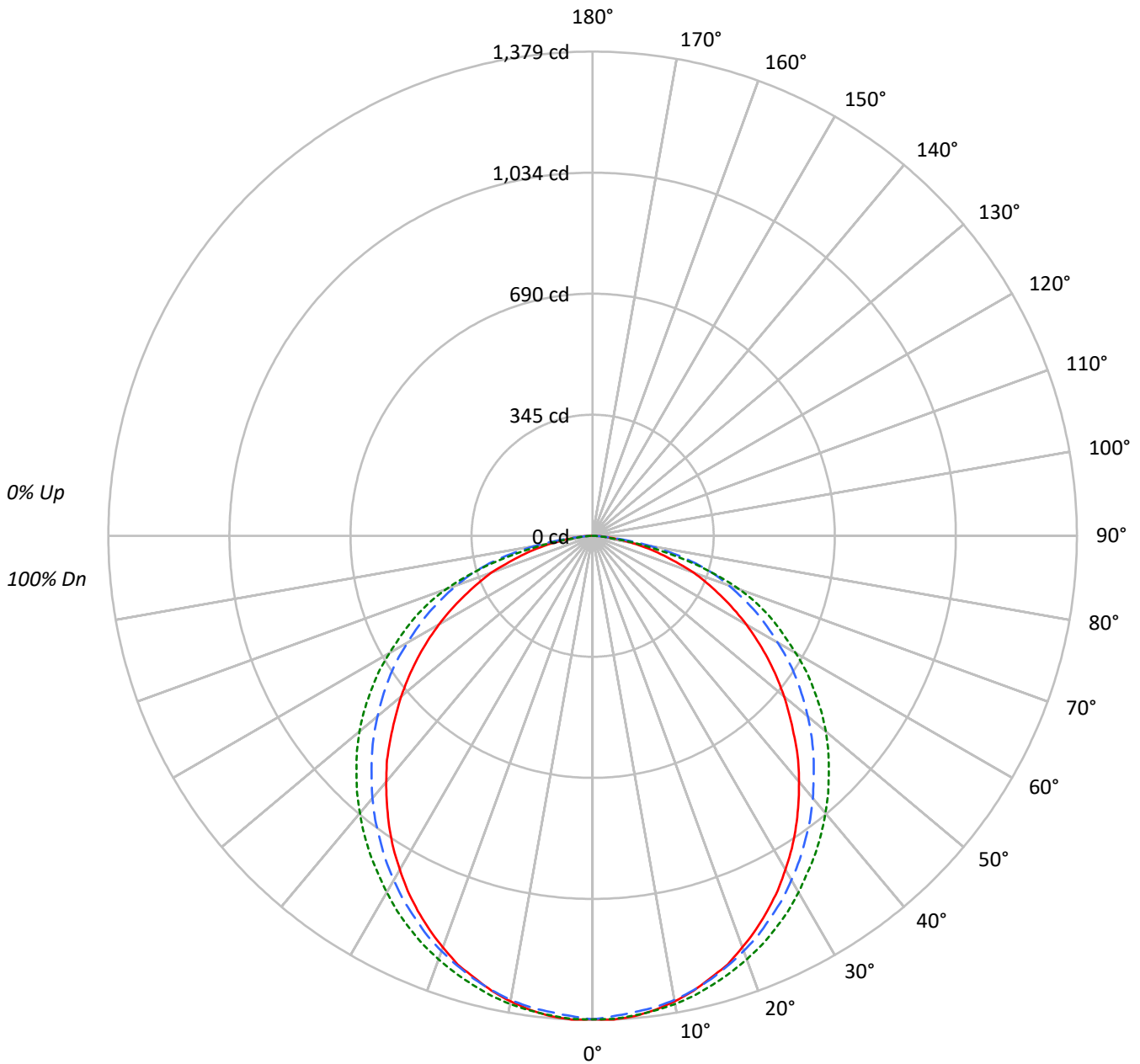
Lumens per Lamp: N/A
Luminaire Lumens: 3858.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
RC	80									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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3888	3888	3888
5°	3892	3859	3886
10°	3859	3849	3882
15°	3807	3818	3868
20°	3746	3781	3855
25°	3670	3736	3843
30°	3578	3691	3822
35°	3480	3638	3810
40°	3369	3594	3799
45°	3245	3551	3795
50°	3125	3511	3805
55°	2993	3483	3794
60°	2851	3434	3768
65°	2683	3424	3770
70°	2526	3394	3662
75°	2191	3318	3129
80°	1772	2674	2084
85°	1176	926	622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	3.4
10°-20°	370.1	9.6
20°-30°	555.1	14.4
30°-40°	662.2	17.2
40°-50°	684.6	17.7
50°-60°	625.0	16.2
60°-70°	491.9	12.7
70°-80°	286.3	7.4
80°-90°	52.7	1.4
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°	1055.2	27.4
0°-40°	1717.4	44.5
0°-60°	3027.1	78.5
0°-90°	3858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1374	1370	1362	1374	1371	130
15°	1303	1305	1306	1324	1324	368
25°	1178	1184	1199	1228	1234	542
35°	1010	1023	1056	1096	1106	631
45°	813	840	890	939	951	628
55°	608	641	708	759	771	544
65°	402	444	513	553	564	399
75°	201	249	304	298	287	214
85°	36	52	29	23	19	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.3	1377.3	1377.3	1377.3	1377.3
2.5°	1379.1	1375.4	1369.5	1379.1	1377.3
5°	1373.5	1369.5	1362.0	1373.5	1371.4
7.5°	1362.0	1358.0	1354.3	1365.8	1363.9
10°	1346.5	1344.7	1342.8	1356.2	1354.3
12.5°	1327.6	1327.6	1325.7	1340.9	1340.9
15°	1302.7	1304.6	1306.5	1323.6	1323.6
17.5°	1279.7	1277.9	1283.5	1302.7	1304.6
20°	1247.2	1250.9	1258.7	1281.6	1283.5
22.5°	1214.6	1218.6	1231.9	1254.9	1260.5
25°	1178.3	1184.1	1199.4	1227.9	1233.8
27.5°	1140.1	1147.8	1168.6	1199.4	1205.0
30°	1097.9	1109.4	1132.3	1166.8	1172.6
32.5°	1055.9	1067.4	1096.0	1130.4	1138.2
35°	1010.0	1023.3	1055.9	1096.0	1105.6
37.5°	962.2	979.3	1017.7	1057.8	1069.3
40°	914.3	933.6	975.5	1017.7	1031.1
42.5°	866.5	885.7	931.5	979.3	992.9
45°	812.9	839.8	889.5	939.2	950.7
47.5°	761.3	790.1	845.4	895.1	910.6
50°	711.6	740.2	799.5	851.3	866.5
52.5°	660.0	690.5	753.6	807.2	820.6
55°	608.2	640.8	707.8	759.4	770.9
57.5°	556.7	591.1	660.0	709.7	723.1
60°	505.1	541.4	608.2	657.9	667.5
62.5°	453.3	491.5	560.4	604.5	614.1
65°	401.7	443.7	512.6	552.9	564.4
67.5°	352.0	394.0	461.0	499.2	508.9
70°	306.1	344.3	411.3	439.9	443.7
72.5°	248.7	296.5	361.4	376.9	367.3
75°	200.9	248.7	304.2	298.4	286.9
77.5°	153.1	200.9	237.2	218.0	202.7
80°	109.0	156.8	164.5	135.7	128.2
82.5°	70.8	109.0	91.9	70.8	57.4
85°	36.3	51.6	28.6	23.0	19.2
87.5°	11.5	7.7	3.8	3.8	1.9
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)