

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: P731932

Luminaire Tested: **14CZ2-44-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-SQR-B2750-W2D-3000K
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

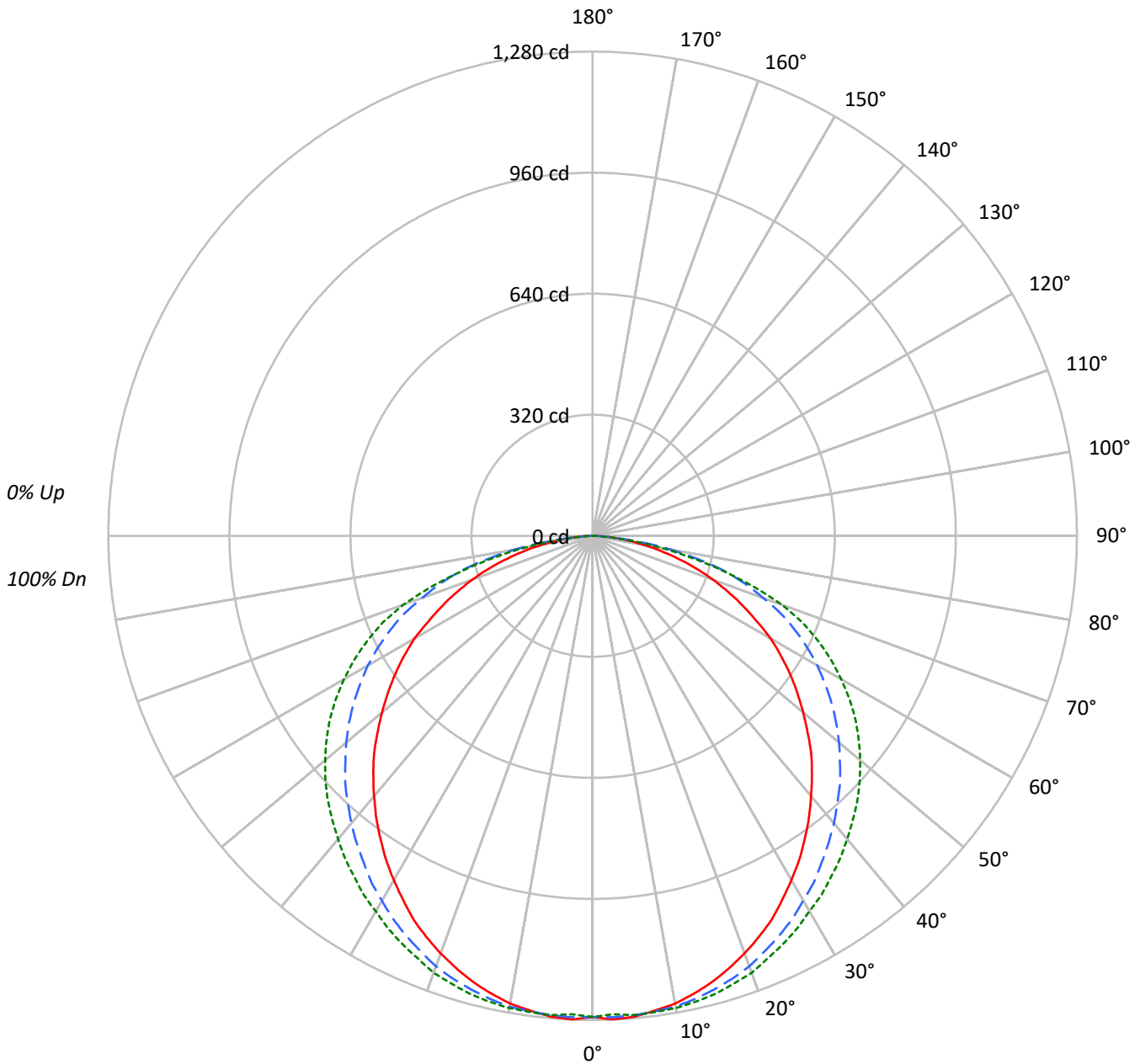
Lumens per Lamp: N/A
Luminaire Lumens: 4025.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	105	101	97	93	97	93	90	93	90	87	89	87	85	83				83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68				68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56				56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48				48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41				41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35				35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28				28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25				25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3590	3590	3590
5°	3615	3604	3604
10°	3599	3623	3634
15°	3569	3628	3664
20°	3528	3638	3693
25°	3487	3633	3709
30°	3425	3630	3736
35°	3369	3635	3789
40°	3311	3655	3857
45°	3264	3692	3952
50°	3189	3732	4053
55°	3134	3794	4173
60°	3069	3872	4283
65°	2927	3942	4391
70°	2779	3951	4386
75°	2544	3938	3872
80°	2175	3363	3001
85°	1710	1904	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.0
10°-20°	349.2	8.7
20°-30°	534.0	13.3
30°-40°	654.5	16.3
40°-50°	703.9	17.5
50°-60°	676.4	16.8
60°-70°	563.3	14.0
70°-80°	345.7	8.6
80°-90°	77.0	1.9
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°	1004.1	24.9
0°-40°	1658.6	41.2
0°-60°	3039.0	75.5
0°-90°	4025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1276	1264	1272	1272	1272	121
15°	1221	1217	1241	1250	1254	344
25°	1120	1130	1166	1181	1191	515
35°	978	1002	1055	1083	1100	612
45°	818	854	925	968	990	629
55°	637	692	771	824	848	569
65°	438	505	590	639	657	434
75°	233	304	361	359	355	247
85°	53	79	59	40	35	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.0	1272.0	1272.0	1272.0	1272.0
2.5°	1279.9	1267.8	1274.0	1272.0	1265.9
5°	1276.0	1263.9	1272.0	1272.0	1272.0
7.5°	1265.9	1255.8	1267.8	1269.8	1269.8
10°	1255.8	1247.6	1263.9	1265.9	1267.8
12.5°	1239.5	1233.3	1253.8	1257.7	1261.7
15°	1221.2	1217.2	1241.4	1249.6	1253.8
17.5°	1199.0	1201.0	1227.4	1237.5	1241.4
20°	1174.5	1180.7	1211.1	1221.2	1229.3
22.5°	1148.1	1156.3	1188.9	1201.0	1209.1
25°	1119.7	1129.9	1166.4	1180.7	1190.8
27.5°	1085.2	1101.5	1142.2	1160.5	1170.6
30°	1050.9	1069.1	1113.8	1136.0	1146.1
32.5°	1016.3	1036.5	1087.4	1109.6	1125.9
35°	977.8	1002.2	1054.8	1083.2	1099.5
37.5°	939.3	967.7	1024.4	1056.8	1075.1
40°	898.6	929.2	991.9	1028.4	1046.7
42.5°	858.1	892.6	957.6	998.0	1018.3
45°	817.6	854.1	925.0	967.7	989.9
47.5°	770.9	815.6	886.5	935.1	957.6
50°	726.2	774.9	849.9	900.8	923.0
52.5°	681.6	732.4	811.4	864.2	886.5
55°	636.9	691.7	770.9	823.5	847.9
57.5°	590.2	647.0	728.2	783.0	805.2
60°	543.6	602.6	685.8	736.4	758.6
62.5°	488.8	557.9	639.1	689.7	710.0
65°	438.2	505.1	590.2	639.1	657.4
67.5°	387.6	456.4	539.6	584.3	600.4
70°	336.7	405.8	478.7	521.4	531.5
72.5°	286.1	355.0	424.1	448.3	444.3
75°	233.3	304.4	361.1	359.2	355.0
77.5°	182.7	251.5	286.1	271.8	265.9
80°	133.8	200.9	206.9	192.8	184.6
82.5°	91.3	143.9	129.8	113.6	105.4
85°	52.8	79.0	58.8	40.5	34.6
87.5°	22.2	20.2	6.2	6.2	3.9
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)