

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: P731907

Luminaire Tested: **14CZ2-39-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731907
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: 14CZ2-39-SQR-B2750-W2D-3000K
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

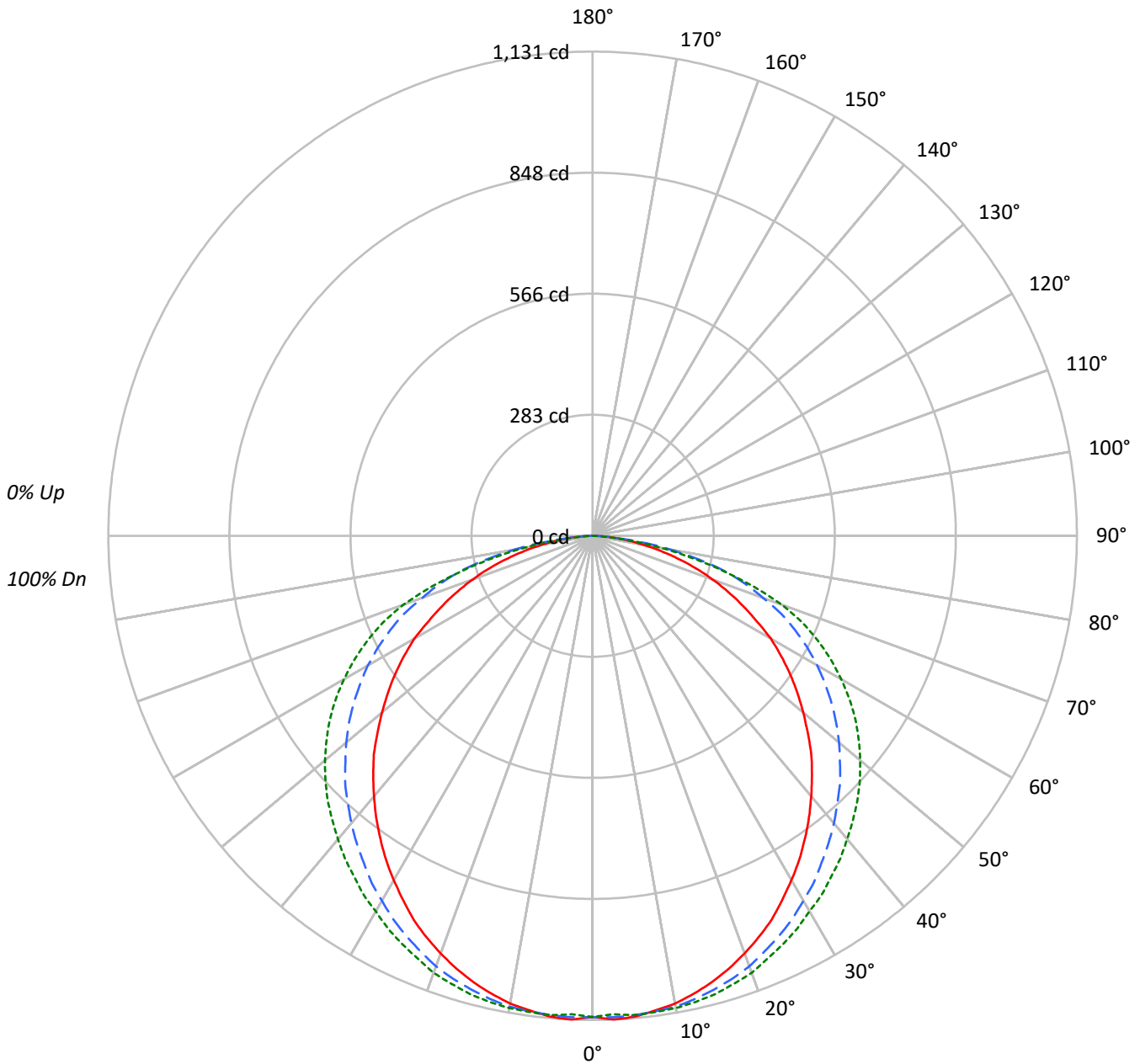
Lumens per Lamp: N/A
Luminaire Lumens: 3557.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P731907

CATALOG NUMBER: 14CZ2-39-SQR-B2750-W2D-3000K

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3173	3173	3173
5°	3195	3185	3185
10°	3181	3201	3211
15°	3154	3206	3238
20°	3118	3215	3263
25°	3082	3210	3278
30°	3027	3208	3301
35°	2978	3212	3348
40°	2926	3230	3408
45°	2884	3263	3492
50°	2818	3298	3582
55°	2770	3353	3688
60°	2712	3421	3785
65°	2586	3484	3880
70°	2456	3491	3876
75°	2249	3481	3421
80°	1921	2971	2653
85°	1512	1681	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.0
10°-20°	308.6	8.7
20°-30°	471.9	13.3
30°-40°	578.4	16.3
40°-50°	622.1	17.5
50°-60°	597.8	16.8
60°-70°	497.8	14.0
70°-80°	305.5	8.6
80°-90°	68.1	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°	887.3	24.9
0°-40°	1465.8	41.2
0°-60°	2685.7	75.5
0°-90°	3557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1117	1124	1124	1124	107
15°	1079	1076	1097	1104	1108	304
25°	990	998	1031	1043	1052	455
35°	864	886	932	957	972	541
45°	722	755	817	855	875	556
55°	563	611	681	728	749	503
65°	387	446	522	565	581	384
75°	206	269	319	317	314	218
85°	47	70	52	36	30	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.1	1124.1	1124.1	1124.1	1124.1
2.5°	1131.1	1120.4	1125.9	1124.1	1118.7
5°	1127.6	1116.9	1124.1	1124.1	1124.1
7.5°	1118.7	1109.7	1120.4	1122.2	1122.2
10°	1109.7	1102.5	1116.9	1118.7	1120.4
12.5°	1095.3	1089.9	1108.0	1111.5	1115.0
15°	1079.2	1075.7	1097.1	1104.3	1108.0
17.5°	1059.6	1061.3	1084.7	1093.6	1097.1
20°	1038.0	1043.4	1070.3	1079.2	1086.4
22.5°	1014.6	1021.8	1050.6	1061.3	1068.5
25°	989.5	998.5	1030.8	1043.4	1052.4
27.5°	959.0	973.4	1009.4	1025.5	1034.5
30°	928.7	944.8	984.3	1003.9	1012.9
32.5°	898.1	916.0	961.0	980.6	995.0
35°	864.1	885.7	932.2	957.3	971.7
37.5°	830.1	855.2	905.3	933.9	950.1
40°	794.1	821.1	876.5	908.8	925.0
42.5°	758.3	788.8	846.2	882.0	899.9
45°	722.5	754.8	817.4	855.2	874.8
47.5°	681.3	720.8	783.4	826.4	846.2
50°	641.8	684.8	751.1	796.0	815.7
52.5°	602.3	647.3	717.1	763.8	783.4
55°	562.8	611.3	681.3	727.8	749.4
57.5°	521.6	571.8	643.6	692.0	711.6
60°	480.4	532.5	606.0	650.7	670.4
62.5°	431.9	493.0	564.8	609.5	627.4
65°	387.2	446.3	521.6	564.8	580.9
67.5°	342.5	403.4	476.9	516.4	530.5
70°	297.6	358.6	423.0	460.7	469.7
72.5°	252.8	313.7	374.8	396.2	392.7
75°	206.2	269.0	319.2	317.4	313.7
77.5°	161.4	222.3	252.8	240.2	235.0
80°	118.2	177.6	182.8	170.4	163.2
82.5°	80.7	127.2	114.7	100.4	93.2
85°	46.7	69.8	51.9	35.8	30.5
87.5°	19.6	17.9	5.5	5.5	3.5
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)