

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: P842873

Luminaire Tested: **14CZ2-39-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842873
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: 14CZ2-39-UNV-B40
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

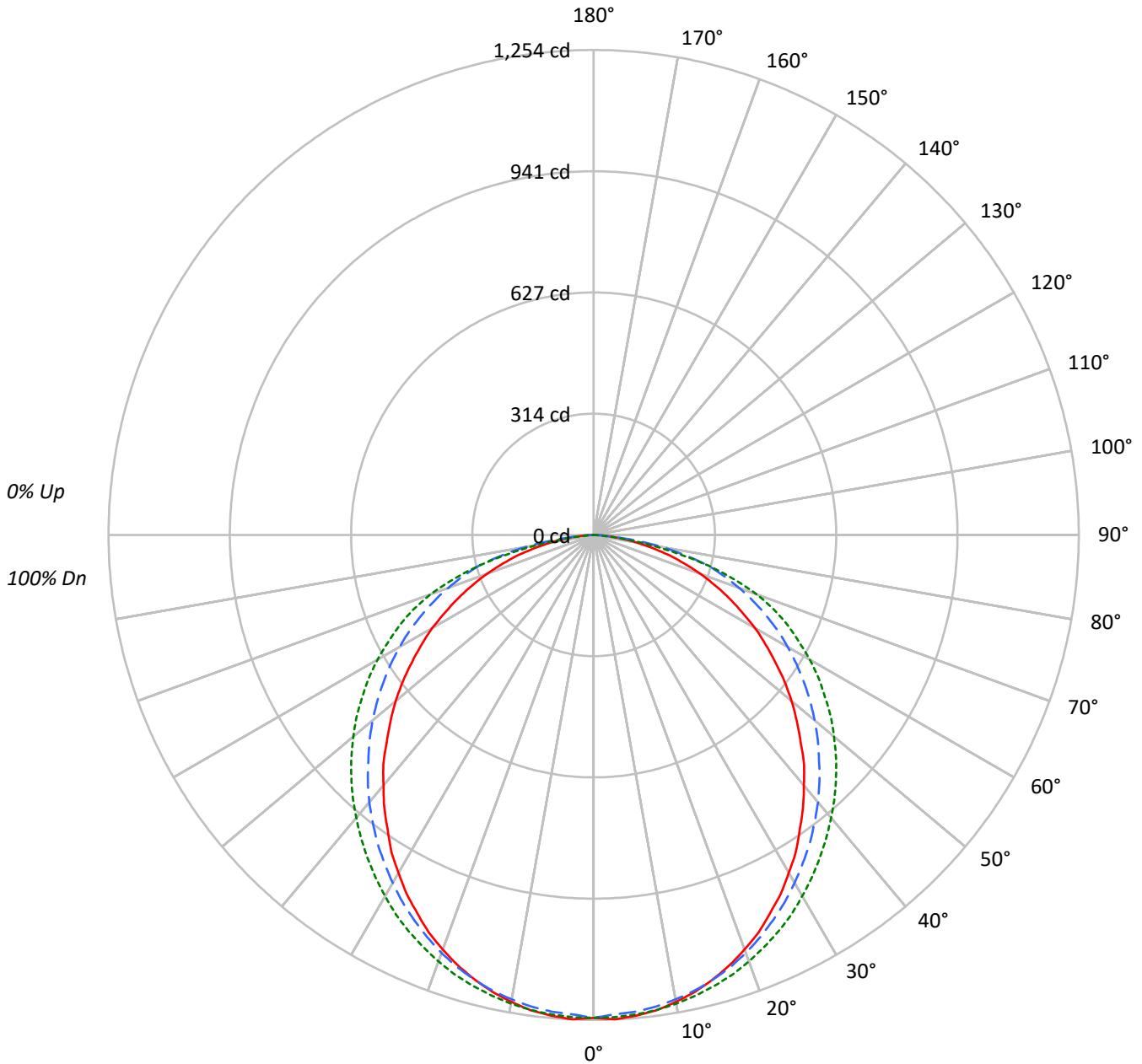
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3625.0 lumens
Efficiency: N/A
Efficacy: 116.9 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): 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	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°	3525	3525	3525
5°	3536	3506	3527
10°	3514	3496	3528
15°	3477	3479	3527
20°	3426	3455	3525
25°	3361	3421	3522
30°	3288	3386	3515
35°	3201	3356	3512
40°	3115	3324	3518
45°	3020	3288	3536
50°	2932	3273	3560
55°	2820	3262	3592
60°	2720	3268	3642
65°	2580	3277	3698
70°	2422	3302	3695
75°	2194	3332	3342
80°	1801	2876	2377
85°	1334	1363	547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.3
10°-20°	337.6	9.3
20°-30°	508.5	14.0
30°-40°	610.2	16.8
40°-50°	636.0	17.5
50°-60°	588.8	16.2
60°-70°	475.7	13.1
70°-80°	290.1	8.0
80°-90°	59.9	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°	964.3	26.6
0°-40°	1574.5	43.4
0°-60°	2799.3	77.2
0°-90°	3625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1248	1245	1238	1246	1245	118
15°	1190	1190	1190	1207	1207	335
25°	1079	1086	1098	1126	1131	497
35°	929	943	974	1010	1019	582
45°	757	779	824	870	886	585
55°	573	603	663	714	730	513
65°	386	424	491	540	554	382
75°	201	246	306	310	306	211
85°	41	61	42	23	17	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.8	1248.8	1248.8	1248.8	1248.8
2.5°	1253.7	1249.7	1240.8	1249.7	1248.0
5°	1248.0	1244.8	1237.5	1246.4	1244.8
7.5°	1239.9	1236.6	1230.2	1240.8	1239.1
10°	1226.1	1224.6	1219.7	1231.9	1231.0
12.5°	1210.1	1209.2	1206.8	1220.6	1219.7
15°	1189.9	1190.5	1190.5	1206.8	1206.8
17.5°	1167.2	1168.7	1172.1	1189.9	1192.3
20°	1140.5	1143.8	1150.3	1170.5	1173.6
22.5°	1113.1	1115.5	1125.1	1149.4	1152.7
25°	1079.1	1085.5	1098.4	1126.0	1130.9
27.5°	1046.8	1052.3	1070.2	1098.4	1106.6
30°	1008.7	1017.6	1038.8	1069.5	1078.4
32.5°	972.5	982.0	1006.3	1041.9	1049.9
35°	928.8	943.3	974.0	1009.6	1019.2
37.5°	889.2	902.8	937.7	976.5	987.8
40°	845.4	862.5	902.1	943.3	954.7
42.5°	805.1	821.1	864.1	906.1	921.5
45°	756.6	779.3	823.6	869.7	885.9
47.5°	712.1	734.8	785.8	834.9	849.6
50°	667.6	691.8	745.3	796.2	810.7
52.5°	621.5	647.6	704.8	755.7	772.8
55°	573.0	603.1	662.9	714.5	729.9
57.5°	527.0	557.7	621.5	674.0	689.4
60°	481.8	513.4	578.8	628.9	645.1
62.5°	431.7	468.9	536.7	585.9	598.2
65°	386.3	424.4	490.7	539.9	553.7
67.5°	338.7	379.9	446.2	491.3	504.5
70°	293.5	336.2	400.1	442.2	447.7
72.5°	245.0	288.6	353.2	379.9	379.9
75°	201.2	245.7	305.5	310.4	306.4
77.5°	153.5	202.9	241.7	231.9	222.3
80°	110.8	159.3	176.9	159.3	146.2
82.5°	74.3	115.5	106.6	84.8	75.2
85°	41.2	61.4	42.1	23.4	16.9
87.5°	15.4	13.8	4.0	4.0	4.0
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)