

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: P842956

Luminaire Tested: **22CZ2-39HE-S-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-S-UNV-B35
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

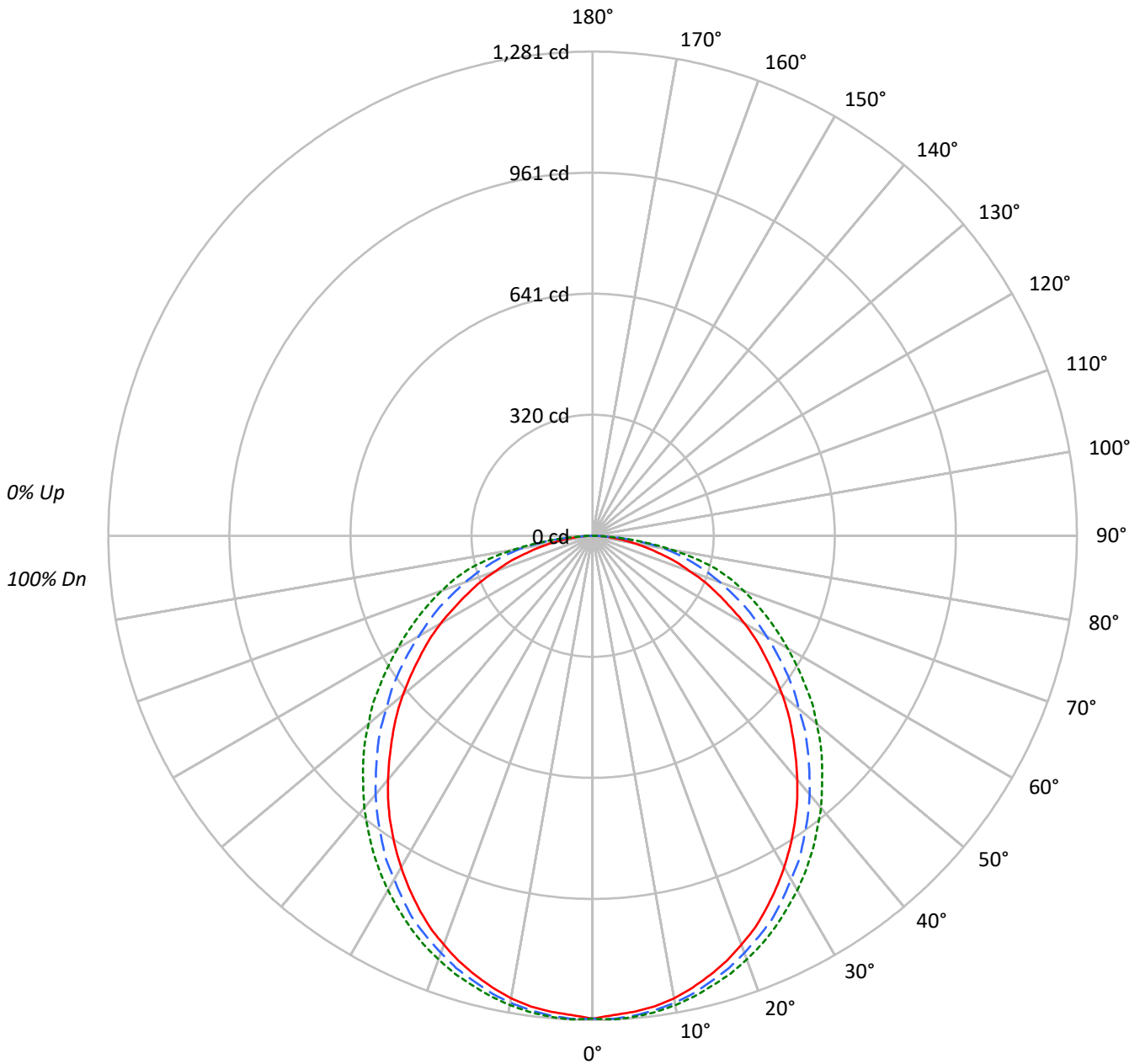
Lumens per Lamp: N/A
Luminaire Lumens: 3565.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43																			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37																			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	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	51	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3625	3625	3625
5°	3601	3629	3639
10°	3580	3614	3633
15°	3533	3581	3616
20°	3476	3546	3602
25°	3406	3510	3578
30°	3319	3439	3548
35°	3227	3377	3515
40°	3118	3309	3481
45°	3004	3230	3444
50°	2893	3143	3415
55°	2757	3086	3390
60°	2633	3011	3380
65°	2457	2993	3417
70°	2263	2967	3519
75°	2041	3008	3703
80°	1765	3098	3479
85°	1462	2598	2598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.4
10°-20°	343.8	9.6
20°-30°	514.4	14.4
30°-40°	609.2	17.1
40°-50°	620.8	17.4
50°-60°	556.4	15.6
60°-70°	435.6	12.2
70°-80°	280.9	7.9
80°-90°	83.0	2.3
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°	979.0	27.5
0°-40°	1588.2	44.5
0°-60°	2765.5	77.6
0°-90°	3565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1264	1267	1274	1276	1278	120
15°	1203	1209	1219	1229	1231	339
25°	1088	1098	1121	1136	1143	501
35°	932	943	975	1005	1015	582
45°	748	765	805	847	858	578
55°	557	576	624	667	685	500
65°	366	388	446	489	509	364
75°	186	214	274	321	338	200
85°	45	62	80	80	80	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1269.0	1272.5	1279.1	1280.9	1280.9
5°	1264.2	1267.4	1274.1	1275.9	1277.5
7.5°	1255.8	1257.4	1265.8	1269.0	1270.9
10°	1242.6	1245.8	1254.2	1259.2	1260.8
12.5°	1224.1	1229.2	1239.2	1245.8	1247.6
15°	1202.7	1209.3	1219.1	1229.2	1231.0
17.5°	1179.2	1186.1	1199.3	1210.9	1214.3
20°	1151.0	1159.4	1174.2	1187.7	1192.7
22.5°	1122.7	1129.3	1147.8	1164.4	1169.4
25°	1087.8	1097.9	1121.1	1136.1	1142.8
27.5°	1051.2	1062.8	1086.2	1106.1	1112.7
30°	1013.1	1024.7	1049.6	1074.6	1082.8
32.5°	973.0	986.4	1016.3	1041.3	1049.6
35°	931.5	943.1	974.8	1004.7	1014.7
37.5°	888.2	898.2	934.9	966.4	976.4
40°	841.7	854.9	893.2	929.9	939.7
42.5°	795.0	810.0	848.3	888.2	898.2
45°	748.5	765.1	805.0	846.7	858.3
47.5°	703.6	716.8	761.9	801.8	818.4
50°	655.3	668.7	712.0	756.9	773.5
52.5°	605.4	623.8	670.3	713.6	733.4
55°	557.2	575.5	623.8	667.1	685.3
57.5°	512.3	527.2	577.1	622.0	640.4
60°	464.0	477.5	530.6	578.9	595.5
62.5°	412.5	432.4	487.3	532.2	552.2
65°	366.0	387.5	445.8	489.1	508.9
67.5°	322.7	342.6	399.3	445.8	467.4
70°	272.8	299.5	357.6	404.1	424.2
72.5°	232.9	256.2	316.1	362.6	384.3
75°	186.2	214.5	274.4	321.1	337.8
77.5°	148.1	176.4	232.9	269.4	277.8
80°	108.0	136.3	189.6	207.9	212.9
82.5°	73.2	99.8	136.3	141.3	143.1
85°	44.9	61.5	79.8	79.8	79.8
87.5°	21.6	24.9	28.3	26.7	26.7
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)